Environmental Monitoring Report

Reporting Period
05/07/2010-01/08/2010
Revision 1.

Former Bayer Crop Science Site
Hauxton
Cambridgeshire

13th August 2010

Author:

M.J. Allsobrook M.Sc. B.Sc.
Project Manager

On behalf of:

Harrow Estates Plc

Vertase F.L.I. Limited
3000 Aviator Way
Manchester Business Park
Manchester M22 5TG

Tel +44 (0) 161 437 2708
Fax +44 (0) 161 437 6300

Email info@vertasefli.co.uk
www.vertasefli.co.uk

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1.0 Introduction

1.1. General

This report has been prepared and submitted in accordance Environmental Permitting Regulations 2007 with reference to the approved Deployment of Vertase FLI's Environmental Permit Ref: ERP/QP3293FY for the remediation works at the former Bayer CropScience site Hauxton, and in accordance with Condition 4 of the planning permission dated 5th February 2010.

The time period that this report represents is from the 5thof July 2010, until the 1st of August 2010.

1.2. The site

The site is the former Bayer Crop Science site, Cambridge Road, Hauxton, Cambridge. The site was used for the storage and production of agrichemicals from the 1940's through to ceasing production in 2004. The site was used primarily for the synthesis, formulation, packaging and storage of agrichemicals (both herbicides and pesticides). It is this former historical use that has led to the contamination legacy of soil and groundwater at the site.

There is also a Waste Water Treatment Plant (WWTP) and other agricultural land which is part of the former land holding of Bayer Crop Science and is part of that controlled by Harrow Estates. The WWTP will be utilised to assist in the treatment of recovered groundwater and will be improved to undertake this task and then maintained for the duration of the remediation. This area of the site will not be subject to remediation as part of this phase of works but will be remediated as a separate phase of work under a separate contract and separate Remediation Method Statement in the future.

1.3. Remediation Brief and Philosophy

The philosophy for this remediation project is set out in detail in the agreed Remediation Method Statement. The remediation of the site has been developed from knowledge of the site gained from historical site investigations, Atkins Preliminary Conceptual Model Report August 2006 (interpretative report defining the current and correct understanding of the geological and

environmental conditions) and subsequent sampling and analysis defining the extent of contamination following further investigation. This information has allowed the conceptual site model and pollutant linkages to be developed to form the remediation methodology. Whilst the remediation work itself is complex and varied, the philosophy is simple and defines the proposed remedial action required. This philosophy has been designed with the brief in mind. This brief can be defined as "a remediation to address all pollutant linkages and ensure that following remediation and re-development no unacceptable risks will remain associated with the treated area of the site by applying the best available techniques not entailing excessive costs (BATNEEC)".

The philosophy behind the remediation is to remove all uncertainty relating to soils and groundwater within the site area by the excavation, characterisation and treatment. All pathways between the identified sources and receptors will be removed and the contaminant mass within soils reduced as far as the practical limits of cost effective technology permit. The Remediation Method Statement sets out how this philosophy or strategy will be achieved practically on site and validated with confirmative post remediation risk assessment.

These remediation works are also required to satisfy the regulators that adequate remediation works have been completed to satisfy their requirements under Part IIa of the Environmental Protection Act 1990.

2.0 Monthly Progress

Week 17. Week Commencing 5th July 2010

Concrete slab and foundations were removed from grid squares K10 (Drawing D907-07 Appendix A), this material was stockpiled on site and is to be crushed at a later date. Excavation of contaminated soils continued in grid squares L10, L11 and K10, contaminated materials hauled to treatment area, formed into treatment beds and covered to prevent odour migration. The main excavation through grid squares L10 and L11 comprised of sands and gravels, and Gault Clay. A proportion of the recently excavated granular contaminated soils were selected due to their odorous character for treatment using force ventilation and vapour extraction techniques. Spent mushroom compost has been added to a number of heavily contaminated treatment beds to aid the biological treatment processes. Treatment beds continue to be turned to in accordance with the Review of Odour Mitigation and Odour Management Measures document, 2nd June 2010.

Week 18. Week Commencing 12th July 2010

The main excavation continued through grid square J10, where a large number of concrete piles were encountered and removed. DNOC contaminated soils from this grid square have been quarantined and will be remediated separately to avoid cross contamination. Spent mushroom compost was added to a number of heavily contaminated treatment beds to aid the biological treatment processes. Construction of the vapour extraction treatment area commenced, with the selected materials for treatment being relocated to this area.

Week 19. Week Commencing 19th July 2010

The excavation activity focussed on grid squares H10 and I10, grid squares L10 and L11 were validated. Elevated PID readings were noted at a specific location beyond the site boundary to the northeast of the site (20/07/2010), works on site ceased immediately and materials were covered to prevent further voc migration, these actions were reported to the Environment Agency, no odour complaints were received on that day or the day after. Further breaking out of concrete continued though grid squares K11 and J11, to allow excavations to progress in a southerly direction.

Week 20. Week Commencing 26th July 2010

Concrete slab and foundations were broken out in grid squares K11 and L12. The main excavation continued intermittently through K11, K12 and K13, due to the predominant wind direction being towards the villages of Hauxton and Harston, excavation of odorous soils was halted and materials covered on a number of occasions during the week to reduce odour generation and migration off site. Free product present in grid square K10, was fully excavated, quarantined and covered, in preparation for off site disposal. A number of non-odorous treatment beds have been relocated towards the site boundary to make space in the centre of the site for the treatment of more odorous materials. Spent mushroom compost was added to a number of heavily contaminated treatment beds to aid the biological treatment processes. The force ventilation and vapour extraction treatment area is fully constructed and is to be commissioned during the first week of August 2010.

3.0 Environmental Monitoring Summary

The environmental monitoring locations detailed in the Environmental Permit deployment form for the site are highlighted in drawing D907_33C in Appendix A.

The detailed environmental monitoring data can be found in Appendix B, the following chapters summarise the finding from the monitoring undertaken by Vertase FLI Site Engineers.

3.1. Odour and VOC Emissions

Odour and VOC monitoring around the site boundary commenced on the 22nd March 2010 and has been undertaken twice daily at eight compass points around the site boundary, in the public access areas. Odour and VOC related observations in between the eight compass points around the site are also noted by the Vertase FLI representative undertaking the monitoring.

In addition to physical control via covers and management of activities odour controlling suppressants and masking agent are being used around the site boundary to mitigate the impact of odour migration off site. Initially two mobile telescopic misting fans were used on site and a full boundary misting system was also erected to supplement the mobile units, along with the addition of two further mobile units to focus specifically on the excavation. The odour controlling solutions used in the misting and telescopic fan systems vary in fragrance from lemon, to melon, to pine, to bubblegum.

Site generated odours including those from the remediation processes and the odour suppression systems observed during the monitoring rounds beyond the site boundary are listed in the environmental monitoring data spreadsheet in Appendix B.

The Vertase FLI Environmental Engineers and Site Management team have been working closely to prevent odours and VOC's generated by the remediation processes migrating off site, along with trying to achieve a fine balance of using a variety of odour control fragrance's at a variety of dilutions to reduce the impact of any odours detected off site.

The Environmental Engineers have logged the actions undertaken on site to reduce the impact of VOC/odours off site, these are noted in the environmental monitoring data in Appendix B. All

mitigation measures have been in accordance with the actions stipulated in the deployment form, including some additional actions to reduce the potential of odour nuisance e.g. repositioning of mobile odour control systems.

During the twice daily environmental monitoring a Photoionisation Detector (PID) has been used to record VOC's present beyond the site boundary. During the reported period VOC's, were detected by the PID (Limit of detection of 0.1ppm) on the following occasions:

- 06/07/2010 (16:12) Between the northeast and the east monitoring locations a maximum intermittent PID reading of 0.2ppm was recorded, the odour was described as a very faint to faint general site odour. Odour monitoring was carried out in the village of Hauxton to ensure this odour was not migrating towards local residents.

- 12/07/2010 (15:40) At the east monitoring location a maximum intermittent value of 1.9ppm was recorded using a PID. The footpath section between the east and southeast monitoring location had a maximum PID reading of 2.0ppm. The odour at these locations was described as a very faint TCE odour, the excavation in J10 was terminated and arisings from this excavation covered for the rest of the day to allow the VOC levels on site reduce.

- 19/07/2010 (17:03) Between the southeast and east monitoring locations a maximum PID value of 0.3ppm was recorded the odour was described as a faint TCE/ PCE /general site odour. No further action required as excavation works had ceased and odorous materials were being covered for the end of the working day.

- 20/07/2010 (16:26) PID monitoring at the south west monitoring location recorded a maximum reading of 0.2ppm, the odour was described as a very faint general site odour. Repeat monitoring was undertaken at this locality to ensure odours and VOC levels did not increase.

- 20/07/2010 (16:38) Between the south east and east monitoring locations adjacent to the Riddy Brook a maximum intermittent PID reading of 20ppm was recorded, the excavation activity was ceased immediately for the rest of the day and the odours materials excavated were fully covered to reduce the VOC emissions. No complaints were received during this period.

- 20/07/2010 (16.44) A maximum intermittent PID reading of 0.7ppm was recorded at the east monitoring location, the odour was described as weak PCE, TCE and general site odour, this quickly subsided as the excavation activity on site had been halted.

- 27/07/2010 (16:30) Between the east and northeast1 monitoring locations PID values ranged from 6-11ppm, there was a strong site odour present in the vicinity. The treatment bed that was being created in the eastern part of the site was immediately covered to reduce VOC generation from this material.

- 28/07/2010 (17:18) A maximum intermittent PID measurement of 0.7ppm was recorded at the southeast monitoring location, the odour was described as being moderate TCE and PCE odours. Excavation of contaminated soils was terminated at 10:00 that day due to site odours being detected along Church Road at approximately 09:00. A band of cloud and low air pressure moved over the site in the afternoon (approximately 17:00) causing site related odours to sink to ground level which gave rise to a number of odour complaints throughout the evening of the 28th of July. By 17:00 all odorous materials and excavations had been covered to reduce the odour generation on site.

All PID reading above 1ppm recorded beyond the site boundary are reported to the Environment Agency immediately, along with details of the additional mitigation methods being implemented to reduce the migration of VOC's from the site.

Long term passive VOC monitoring is carried out at eight compass point locations around the site boundary, in the public accessible areas, further monitoring locations are located within the centre of the waste water treatment works, on Church Road, Hauxton and Queens Close, Harston.

The results for the long term passive VOC monitoring carried out between 10/06/2010 and 08/07/2010 are presented in appendix C. The analysis indicates that the majority of the VOC's detected are around the baseline, except for Toluene and Tetrachlroethylene which continue to be slightly raised above the baseline values but are well below the levels considered to be within acceptable limits for published criteria.

The analysis for Church Road, Hauxton and Queens Close, Harston indicates there are some site related VOC's detected at these locations, but at levels that are considered to be within acceptable limits for published criteria.

The 28 day passive VOC monitoring results have been forwarded to the Health Protection Agency for review. The HPA have under taken independent risk assessment upon the data provided and have provided a positive non technical summary which is available on South Cambridgeshire District Councils website.

3.2. Dust Fibre and Particulate Emission

Both real time dust measurement and long term dust deposition monitoring has been undertaken around the site boundary at six compass point locations, north, east, south, west with two monitoring positions in the northeast (drawing D907_30C, Appendix A).

Real time airborne dust monitoring is undertaken as a minimum twice daily by an Environmental Engineer using a 'Dustmate' dust particle monitor around the site boundary as part of the environmental monitoring schedule, results are recorded in the environmental monitoring spreadsheet (Appendix B). The 'Dustmate' dust particle monitor will not function correctly in wet weather conditions, therefore on occasion data may be missing from the environmental monitoring spreadsheet for this reason. Dust migration is however less likely in wet weather conditions. The 'Dustmate' dust particle monitor did not function correctly on 15th and 16th of July 2010, a replacement 'Dustmate' monitor was brought to site to replace this monitor that subsequently went for repair and recalibration. Therefore real-time airborne dust data was not captured on the 15th July and the afternoon of the 16th of July.

Dust particle measurements at each monitoring location have varied, with the higher dust readings being generally at the locations adjacent to the heavily trafficked Cambridge Road (A10). The average Total Suspended Particulates (TSP) reading around the site is 95.65 µg/m^3, the average PM10 dust reading around the site is 46.62 µg/m^3. Where a potential for dust has been observed, on site dust suppression methods have been deployed immediately to reduce the generation of site dust and all haul routes are continually wetted to prevent dust release.

Directional dust deposition gauges at the six monitoring locations are analysed every fortnight for Effective Area Coverage (EAC) (percentage of dust deposition relating to the potential to cause nuisance), results generated by an external laboratory are presented in Appendix D.

Baseline dust monitoring undertaken between 19/02/2010 to 19/03/2010 (4 locations monitored) recorded a maximum dust deposition rate of 0.54 %EAC at the western monitoring location.

Dust monitoring undertaken from the 24/06/2010 to 08/07/2010 (6 locations monitored) recorded a maximum dust deposition rate was 1.36 %EAC at the west monitoring location. All other locations had a maximum dust deposition rate of 1.14 %EAC, or less.

Dust monitoring undertaken from the 08/07/2010 to 22/07/2010 (6 locations monitored) recorded a maximum dust deposition rate of 1.43% EAC at the east monitoring location. All other locations had a maximum dust deposition rate of 1.29%EAC, or less.

Dust deposition values of less than 2.5% are regarded as having a very low nuisance potential. Only when percentages rise from 2.5% – 5% EAC is dust considered to have a low nuisance causing potential.

During the reported period dust, fibre and particle emissions have been low, and have not caused visual dusting off site.

3.3. Control of Mud and Debris

A pressure washer has been on site constantly to allow any maintenance or plant delivery vehicles leaving contaminated parts of the site to be washed down thoroughly first, as not to take potentially contaminated mud and debris through the clean zone and off site. The movement of vehicles between the contaminated and clean parts of the site is strictly controlled by the site management team.

3.4. Noise

Noise monitoring around the site boundary commenced on the 22nd March 2010 and has been undertaken twice daily as a minimum, recording findings at eight compass points around the site boundary in the public access areas (drawing D907_30C, Appendix A).

Site operations are restricted to 8am to 6pm and site noise levels are consistently at an average acceptable low background level of 64.88dB. Exceedance's of the 80dB threshold (stipulated in the Environmental Permit deployment document) have been recorded during the monitoring period, however traffic along the A10 has been identified as the source of the slightly elevated noise levels. Data is recorded in the environmental monitoring data spreadsheet, Appendix B.

3.5. Litter

All litter occurrences are removed from within the site, and off site around the boundary fence, and disposed of appropriately. Litter is generally low off site, and is well managed on site, by all site personnel. All recordings of the presence of litter are noted in the Environmental Monitoring Data spreadsheet in Appendix B.

4.0 Surface and Ground Water Condition

4.1. Surface Water Monitoring

As part of the environmental monitoring programme, the Riddy Brook located to the east of the site (Drawing D907_33C, Appendix A) is inspected daily as a minimum at two locations up and down stream for general observations, on any discolouration, sedimentation etc. The observations are recorded on the Environmental Monitoring Data (Appendix B). Throughout the monitoring period there have been no visual signs that the remediation works on site are having any impact on the Riddy Brook.

The water level within the Riddy Brook is monitored and recorded on a daily basis at a minimum of two locations, footbridge adjacent to Mill House (Riddy 1) and the most southerly footbridge over the Riddy Brook, adjacent to the eastern corner of the site (Riddy 4). Two further locations are also monitored, Riddy 2 at the footbridge over the Riddy Brook approximately 150m southeast of Mill House and the former fire exit bridge (Riddy 3), 210m southeast of Mill House. All the water level data is recorded in the main groundwater level data sheet in Appendix E. During the monitoring period there has been very little change in level and flow along the Riddy Brook.

4.2. Surface Water Sampling and Analysis

Upstream and downstream water samples from both the River Cam (Granta) and the Riddy Brook are taken on a monthly basis. The results for samples taken on 28th July 2010 are presented in Appendix F.

The surface water analysis (28th July 2010) shows traces of Tetrachloroethylene (<3 µg/l) in both upstream and downstream Riddy Brook and River Cam samples. Toluene is present at trace levels (1 ug/l) in the upstream samples of both the River Cam and Riddy Brook. These trace levels of Tetrachloroethylene and Toluene have been recorded in the baseline data collected during the summer of 2008.

4.3. Groundwater Level Monitoring

Groundwater levels are recorded within at least 11 borehole locations onsite on a daily basis, to ensure the groundwater beneath the site remains in a static condition during the remediation works and does not pose a risk to surface and groundwater bodies beyond the site boundary.

During the initial excavation works on site very little groundwater has been encountered, the majority of excavations located in the northern parts of the site have exceeded a depth of 4m below current ground level and have penetrated the Gault Clay in parts.

The main source of water encountered during excavations has been discontinuous contaminated perched water present in the Made Ground. This water has been captured and treated in the Waste Water Treatment Works associated with the site.

From approximately 2-3m below ground level discontinuous thin sand and gravel bands have also produced some limited quantities of water, which have tended to dry up within 24 hours.

The groundwater levels measured at locations around the site are shown in drawing D907_31E, in appendix A. The groundwater levels are presented in Appendix E.

Groundwater contour plots are drawn up on a weekly basis to interpret the potential movement of the water beneath the site. Contour plots D907_89, D907_90, D907_94 D907_95 and D907_96 (Appendix G) illustrate the weekly groundwater levels for the reported period.

The Five contour plots constructed (Appendix G) illustrate that there have been subtle changes in groundwater levels during the monitoring period. Up until the 15/07/2010 the contour plots are very similar in pattern and actual measured values to the previously recorded data during the initial part of the remediation works.

Post the 15th July contaminated groundwater in the centre of the site around BH1/06 has been completely removed, along with the monitoring borehole. Since that time there has been no recharge to this area. The base of excavations on site are approximately at 10.00mAOD there is no groundwater present above the Gault Clay formation (non-aquifer) in the northern part of the site. To the south of the site the groundwater level has been relatively static with very little

change. There has not been any change to the pumping regime in this part of the site during the monitoring period.

4.4. Groundwater Sampling and Analysis

Groundwater samples from 11 monitoring locations on site are taken on a monthly basis. The results for samples taken on 28th of July 2010 are pending and will be presented in Appendix F.

Site groundwater is actively pumped from around the bentonite wall and the High bay warehouse, to prevent groundwater migration towards the Riddy Brook. The concentrations of the contaminants of concern within each of the monitored boreholes have been static on site during the initial works on site.

The contaminant concentrations present in the samples taken on the 28th of July are very similar to the baseline data collected during the summer of 2008, illustrating that there has been very little change to the groundwater's condition since 2008.

5.0 Waste Water Treatment Plant

The Waste Water Treatment Plant (WWTP) is part of the former land holding of Bayer Cropscience and is part of that controlled by Harrow Estates. The WWTP was an integral part of the former Bayer Crop Science site, located to the west of the A10, specifically designed to treat and discharge liquid waste products derived from the production of agrochemicals (both herbicides and pesticides) and sewage from the facility.

The WWTP has been previously operated (until the 15th of March 2010) by Alpheus Environmental Ltd. to maintain the required discharge volume generated by the groundwater pumping systems on the main Bayer Cropscience site along the bentonite cut off wall and the high bay warehouse.

Vertase FLI have established a maintenance programme and control procedures to ensure the WWTP is operated within the constraints of the discharge consent. Essential system checks and improvements have been made to the plant to ensure it can treat the volume and concentrations of influent generated by the continued groundwater control and the contaminated water recovered during the remediation activities on the main site.

The composition of the water discharged to the River Cam (Granta) must not exceed the permitted levels in paragraphs 1.7.1, 1.8.1 and 1.8.2 of the discharge consent PR1NF/1744D01 Issued and regulated by the Environment Agency.

The treated effluent is sampled at the specified location as stipulated in the discharge consent. Vertase FLI also sample the influent to the WWTP, along with a sample taken after the primary carbon treatment, this is to assess the performance of main treatment process of the WWTP and highlight potential expiry of the primary carbon vessels.

The fortnightly samples are analytically tested for the water quality parameters and the chemical compounds specified in paragraph 1.7.1 of the discharge consent PR1NF/1744 D 01. The data is tabulated and presented in Appendix H along with the raw data from the laboratory reports.

Throughout the reporting period the WWTP has been successful in treating the compounds listed within paragraph 1.7.1 (consent PR1NF/1744D01) to acceptable levels for discharge to the River Cam (Granta) under the regulated discharge consent.

The Environment Agency carry out independent discharge monitoring at the WWTP on a monthly basis, during the reportable period Vertase FLI and Harrow Estates Plc have not been notified of any unacceptable effluent discharging to the River Cam (Granta) from the operating plant.

6.0 Contaminants Not Previously Identified

To fulfil the requirements of condition 4 and condition 9, Planning Condition Document ref:S/2307/06/f Issued 10/02/2010, Vertase FLI are continually undertaking soil characterisation sampling prior to remediation processes to identify the types and concentrations of contaminants present in the specific grid squares across the entire site.

The soil characterisation samples undergo a series of laboratory analyses consisting of targeted analysis, screening against known contaminants and a full GCMS scan to identify any contaminants not previously identified.

All characterisation samples analysed and found to contain previously unidentified contaminants are reported in accordance with condition 9 of the Planning Condition Document ref:S/2307/06/f Issued 10/02/2010.

From the commencement of site works (15/03/2010) to 01/08/2010, twenty five characterisation samples have been taken by Vertase FLI in partnership with Atkins to assess the contamination type and concentrations prior to remediation of the materials. Thirteen characterisation samples analysed contained a total of fourteen compounds / potential contaminants that had not been previously identified.

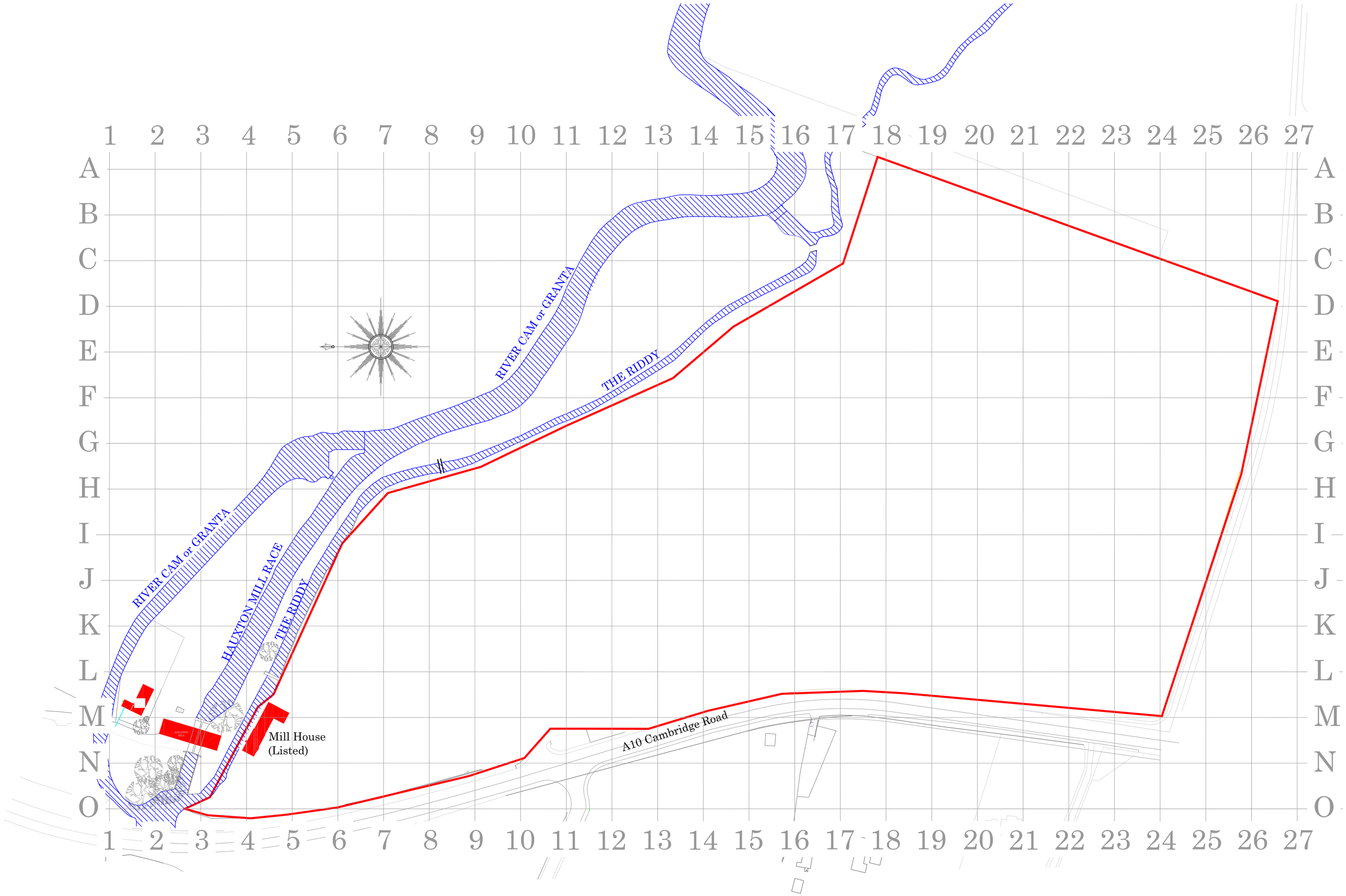
A summary table of the soil characterisation testing is presented in Appendix I, the previously unidentified compounds are listed here, with comments regarding the origin and likely usage on site.

The remediation project consultants Atkins continuously review the soil characterisation analysis and report previously unidentified contaminates in accordance with condition 9, Planning Condition Document ref:S/2307/06/f Issued 10/02/2010.

Appendix A

Drawings

A1



Legend

- Buildings to Remain
- Water Course
- Site Boundary

Drawing Base : Ref
LW/HAUX-002/2006

Rev.	Description	Revised By	Date
	FIRST ISSUE		21 April 2008

Vertase F.L.I.

Bristol Head Office: Tel: 01275 397600 Fax: 01275 397601
Sheffield Office: Tel: 01246 813289 Fax: 01246 812963
Hertford Office: Tel: 01992 535757 Fax: 01992 535858
Manchester Office: Tel: 01614 372708 Fax: 01614 376300

email: info@vertaseffli.co.uk
www.vertaseffli.com

Site Address:
Bayer Site
Hauxton
Cambridge

Rev:

Title: Blank Site Plan with Grid

Client: Harrow Estates

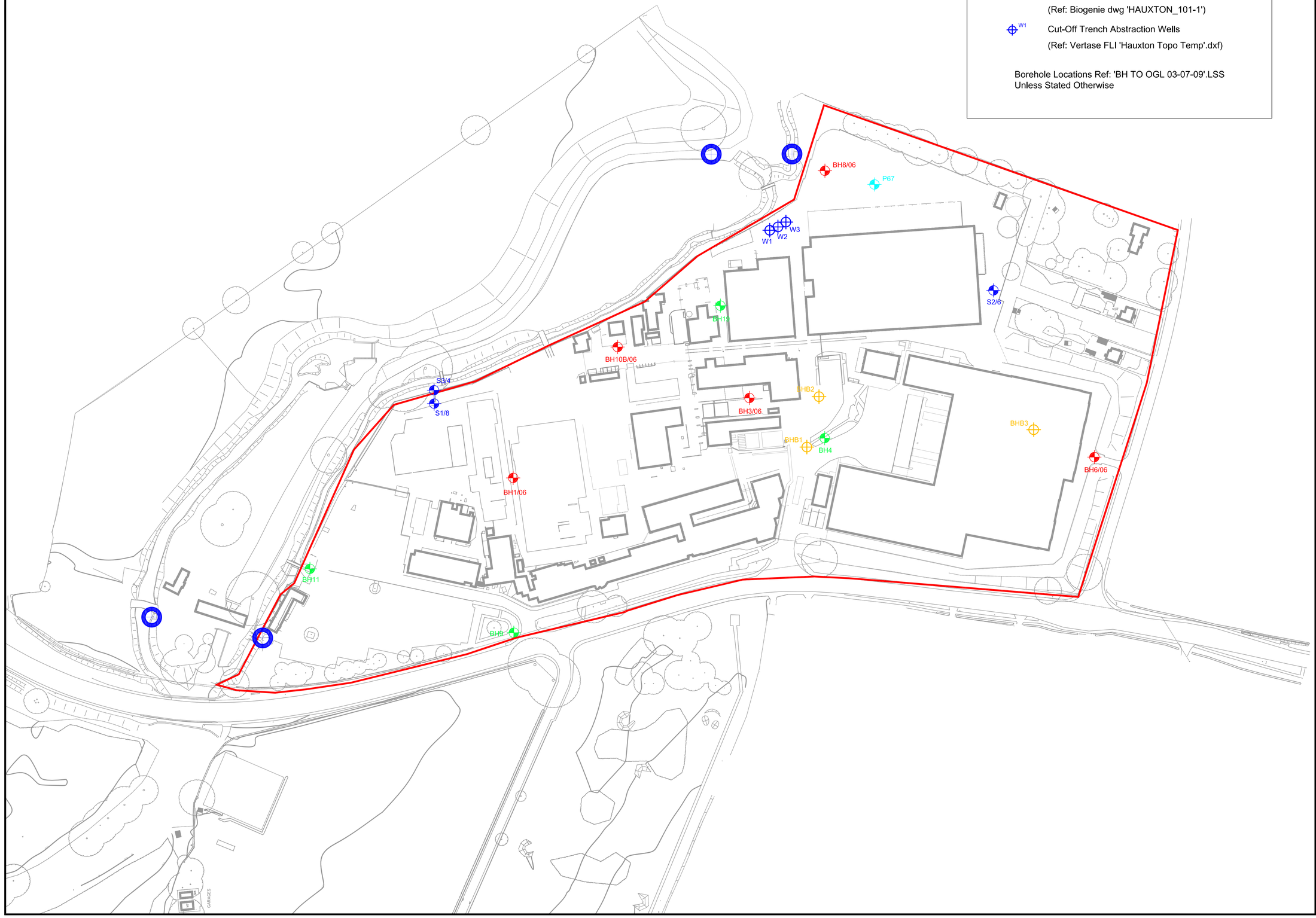
Drawn: JWH	Checked: MA	Approved: MA
Dwg: D907_07	Contract: 907BRI	Scale: 1:1000

A1

Legend

- BH1/06 — Atkins Exploratory Hole Location
- BH7 P67 — Previous Borehole Location
- Water Sampling Location
- BHB1 — Biogenie Boreholes (Ref: Biogenie dwg 'HAUXTON_101-1')
- W1 — Cut-Off Trench Abstraction Wells (Ref: Vertase FLI 'Hauxton Topo Temp'.dxf)

Borehole Locations Ref: 'BH TO OGL 03-07-09'.LSS
Unless Stated Otherwise



Rev.	Description	Revised By	Date
E	BHB1,BHB2,BHB3, W1,W2,W3,BH3-06 & BH08-06 Added (BH3-06 & BH08-06 Ref:D907_31 Iss 0)	MRG	17-08-09
D	BH1 Removed & BH19 Added	MRG	07-07-08
C	BH1 Added	JWH	11 June 2008
B	BH5/06 Erased S2/6 Added	JWH	09 June 2008
A	Boreholes Erased	JWH	14 May 2008
	FIRST ISSUE		23 April 2008

Vertase F.L.I.

- ■ Bristol Head Office: Tel: 01275 397600 Fax: 01275 397601
- □ Sheffield Office: Tel: 01246 813289 Fax: 01246 812963
- □ Hertford Office: Tel: 01992 535757 Fax: 01992 535858
- □ Manchester Office: Tel: 01614 372708 Fax: 01614 376300

email: info@vertasefli.co.uk
www.vertasefli.com

Site Address:
Bayer Site
Hauxton
Cambridge

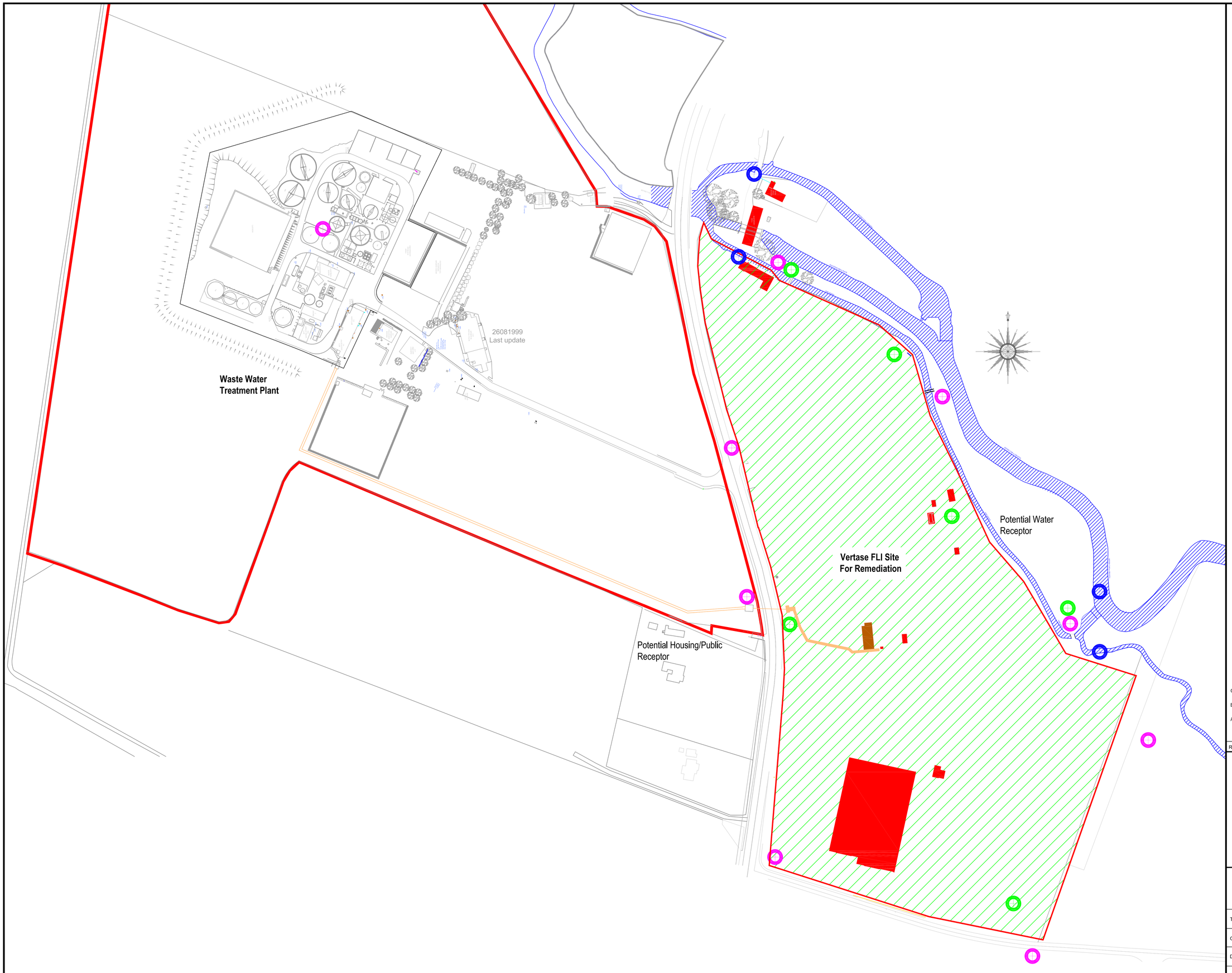
Rev: E

Title: Retained Boreholes for Monitoring & Reference

Client: Harrow Estates

Drawn: JWH	Checked: MA	Approved: MA
Dwg: D907_31	Contract: 907BRI	Scale: 1:1000

A1



Legend

- Sub-Station/Buildings to Remain
- Water Course
- Vertase FLI Site for Remediation
- Mobile Treatment Licence Boundary
- Site Effluent Sump and Ducting
- Diffusion Tubes /Monitoring Location
- Dust Monitoring Location
- Water Sampling Location

Drawing Base : Ref
LW/HAUX-002/2006

Rev.	Description	Revised By	Date
C	Dust Monitoring Locations Amended	MRG	14 July 08
B	Dust Monitoring Location Amended	JWH	09 June 08
A	Water Sampling Points Added Treatment Building Amended	JWH	15 May 2008
	FIRST ISSUE		21 April 2008

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Bristol Head Office: Tel: 01275 397600 Fax: 01275 397601
Sheffield Office: Tel: 01246 813289 Fax: 01246 812963
Hertford Office: Tel: 01992 535757 Fax: 01992 535858
Manchester Office: Tel: 01614 372708 Fax: 01614 376300

email: info@vertasefli.co.uk
www.vertasefli.com

Site Address:
Bayer Site
Hauxton
Cambridge

Rev: C

Title: Environmental Monitoring Plan

Client: Harrow Estates

Drawn: JWH	Checked: MA	Approved: MA
Dwg: D907_33	Contract: 907BRI	Scale: 1:1250

Appendix B

Environmental Monitoring Data

								ODOUR					DUST		NOISE	LITTER		RIDDY BROOK			METEOROLOGICAL AND ENVIRONMENTAL CONDITIONS							
Assessor	Date	Daily Activity	Boundary	Start Time	Finish Time	Detectability (Yes or No)	Intensity (1 to 9)	Quality (Description)	Hedonic Tone (-3 to+3)	Location Sensitivity (1 to 5)	Odour Source (1 to 5)	PID (ppm)	TSP	PM10	Average (dBa)	Present (Description)	Materials attracting scavengers	Inspection	Water Level (mAOD)	Complaints	Action Required	Wind Speed (1 to 6)	Wind Direction	Air Temp (C)	Description (Rain, Sun)	Cloud Cover (0 to 8)	Ground Conditions (Wet, dry)	General Notes
D Holman	05/07/2010	excavation, turning beds, mixing chicken manure into beds, screening	N	9.26	9.31	y	3	vegetation	0	2	1	0	116.3	78.4	60	no	no	clear	9.199			4	W	22	dry	8	dry	Evidence of vegetation die back at SE corner of site adjacent to asparagus field, slight occasional gusts of odour control suppressant along church road
D Holman	05/07/2010	excavation, turning beds, mixing chicken manure into beds, screening	NE	9.32	9.37	y	2	vegetation	1	2	1	0	249.1	226.6	58	no	no	clear									
D Holman	05/07/2010	excavation, turning beds, mixing chicken manure into beds, screening	NE1	9.38	9.41								232.6	193.9				clear									
D Holman	05/07/2010	excavation, turning beds, mixing chicken manure into beds, screening	E	9.43	9.48	y	2	vegetation	0	2	1	0	163.7	172.1	58	no	no	clear	9.639								
D Holman	05/07/2010	excavation, turning beds, mixing chicken manure into beds, screening	SE	9.49	9.54	y	1	odour control	1	2	5	0			54	no	no										
D Holman	05/07/2010	excavation, turning beds, mixing chicken manure into beds, screening	S	9.12	9.17	y	2	odour control	1	2	5	0	103.1	27.8	68	no	no										
D Holman	05/07/2010	excavation, turning beds, mixing chicken manure into beds, screening	SW	9.06	9.11	y	1	vegetation	1	4	1	0			76	no	no										
D Holman	05/07/2010	excavation, turning beds, mixing chicken manure into beds, screening	W	9.00	9.09	y	3	vegetation	1	4	1	0	43.9	24.1	79	no	no										
D Holman	05/07/2010	excavation, turning beds, mixing chicken manure into beds, screening	NW	9.20	9.25	y	3	vegetation	0	2	1	0			78	no	no										
D Holman	05/07/2010	breaking concrete, turning beds, mixing beds with chicken manure	N	17.06	17.11	n				2		0	67.3	45.9	60	no	no	clear	9.199			4	NNW	27	dry	6	dry	Slight odour control fragrance at Hauxton church 2/9
D Holman	05/07/2010	breaking concrete, turning beds, mixing beds with chicken manure	NE	17.13	17.18	y	2	vegetation	1	2	1	0	231.3	217.6	62.5	no	no	clear									
D Holman	05/07/2010	excavation, turning beds, mixing chicken manure into beds, screening	NE1	17.19	17.22								216.1	164.3				clear									
D Holman	05/07/2010	excavation, turning beds, mixing chicken manure into beds, screening	E	17.24	17.29	y	4	odour control	1	2	5	0	119.2	68.3	59	no	no	clear	9.639								
D Holman	05/07/2010	excavation, turning beds, mixing chicken manure into beds, screening	SE	17.30	17.35	y	4	odour control	1	2	5	0			56.5	no	no										
D Holman	05/07/2010	excavation, turning beds, mixing chicken manure into beds, screening	S	16.52	16.57	y	2	vegetation	0	2	1	0	17.1	19.3	68	no	no										
D Holman	05/07/2010	excavation, turning beds, mixing chicken manure into beds, screening	SW	16.46	16.51	y	2	vegetation	0	4	1	0			76	no	no										
D Holman	05/07/2010	excavation, turning beds, mixing chicken manure into beds, screening	W	16.40	16.45	y	1	vegetation	0	4	1	0	86.8	45.1	80	no	no										
D Holman	05/07/2010	excavation, turning beds, mixing chicken manure into beds, screening	NW	17.00	17.05	y	3	vegetation	0	2	1	0			78	no	no										
D Holman	06/07/2010	excavation, turning beds, mixing chicken manure into beds, screening	N	11.11	11.16	y	2	vegetation	0	2	1	0	101.3	78.4	55	no	no	clear	9.199			0.5	WSW	21	dry	6	dry	General site odours evident along footpath east of site, 0.0ppm. No site odour present at Hauxton Parish Church
D Holman	06/07/2010	excavation, turning beds, mixing chicken manure into beds, screening	NE	11.17	11.22	y	2	odour control	1	2	5	0	219.4	188.7	56	no	no	clear									
D Holman	06/07/2010	breaking concrete, turning beds, mixing beds with chicken manure	NE1	11.23	11.26								231.7	118.3				clear									
D Holman	06/07/2010	breaking concrete, turning beds, mixing beds with chicken manure	E	11.28	11.33	y	2	vegetation	0	2	1	0	111.4	79.6	57	no	no	clear	9.629								
D Holman	06/07/2010	breaking concrete, turning beds, mixing beds with chicken manure	SE	11.34	11.39	y	1	odour control	1	2	5	0			56	no	no										
D Holman	06/07/2010	breaking concrete, turning beds, adding mushroom compost	S	10.57	11.02	y	2	vegetation	0	2	1	0	68.3	45.3	67	no	no										
D Holman	06/07/2010	breaking concrete, turning beds, adding mushroom compost	SW	10.51	10.56	y	3	vegetation	0	4	1	0			75	no	no										
D Holman	06/07/2010	breaking concrete, turning beds, adding mushroom compost	W	10.45	10.50	y	1	vegetation	0	4	1	0	43.7	19.8	79	no	no										
D Holman	06/07/2010	breaking concrete, turning beds, adding mushroom compost	NW	11.05	11.10	y	1	vegetation	1	2	1	0			78	no	no										
T Walker	06/07/2010	breaking concrete, turning beds, adding mushroom compost	N	8.25	8.30	n	1	No odour	0			0										3	NW	17	Dry	1	dry	7 complaints previous evening from Church Road vicinity. EA to meet on site today. Spoke to resident of church road said she had smelled nothing all night.
T Walker	06/07/2010	breaking concrete, turning beds, adding mushroom compost	NE	8.30	8.35	n	1	No odour	0			0															
T Walker	06/07/2010	excavation of concrete, screening of crushed concrete, turning beds, forming beds	NE1	8.30	8.35							0															
T Walker	06/07/2010	excavation of concrete, screening of crushed concrete, turning beds, forming beds	E	8.35	8.37	n	1	No odour	0			0															
T Walker	06/07/2010	excavation of concrete, screening of crushed concrete, turning beds, forming beds	SE	8.00	8.05	n	1	No odour	0			0															
T Walker	06/07/2010	excavation of concrete, screening of crushed concrete, turning beds, forming beds	S	8.05	8.10	n	1	No odour	0			0															
T Walker	06/07/2010	excavation of concrete, screening of crushed concrete, turning beds, forming beds	SW	8.10	8.15	n	1	No odour	0			0															
T Walker	06/07/2010	excavation of concrete, screening of crushed concrete, turning beds, forming beds	W	8.15	8.20	n	1	No odour	0			0															
T Walker	06/07/2010	excavation of concrete, screening of crushed concrete, turning beds, forming beds	NW	8.20	8.25	y	3	odour control	1			0															
D Holman	06/07/2010	excavation of concrete, screening of crushed concrete, turning beds, forming beds	N	16.28	16.33	n				2		0	14.8	13.2	67	no	no	clear	9.199			3	sw	29	dry	6	dry	No site odour detected at Hauxton Parish church, odour present along eastern boundary <2.0ppm
D Holman	06/07/2010	excavation of concrete, screening of crushed concrete, turning beds, forming beds	NE	16.22	16.27	y	1	general site odour	0	2	5	0	204	191.7	64	no	no	clear									
D Holman	06/07/2010	removing material from K10, forming treatment beds, turning beds	NE1	16.18	16.21								154.5	93.7				clear									
D Holman	06/07/2010	removing material from K10, forming treatment beds, turning beds	E	16.12	16.17	y	2	general site odour	0	2	5	0	98.6	43.5	52	no	no	clear	9.629								
D Holman	06/07/2010	removing material from K10, forming treatment beds, turning beds	SE	16.06	16.11	y	1	vegetation	0	2	1	0			50	no	no										
D Holman	06/07/2010	removing material from K10, forming treatment beds, turning beds	S	16.00	16.05	y	2	vegetation	0	2	1	0	54.8	18.7	68	no	no										
D Holman	06/07/2010	removing material from K10, forming treatment beds, turning beds	SW	15.54	15.59	n				4		0			72	no	no										
D Holman	06/07/2010	removing material from K10, forming treatment beds, turning beds	W	16.40	16.45	y	2	traffic fumes	-1	4	1	0	91.3	46.2	59	no	no										
D Holman	06/07/2010	removing material from K10, forming treatment beds, turning beds	NW	16.34	16.39	y	3	traffic fumes	-1	2	1	0			77	no	no										
D Holman	07/07/2010	removing material from K10, forming treatment beds, turning beds	N	10.11	10.16	y	2	odour control and vegetation	1	2	3	0	35.5	7	61.5	no	no	clear	9.199			5	SSE	21	dry	8	dry	No odour present at Hauxton Parish Church
D Holman	07/07/2010	removing material from K10, forming treatment beds, turning beds	NE	10.05	10.10	y	1	vegetation	0	2	1	0	70.2	56	72	no	no	clear									
D Holman	07/07/2010	breaking concrete, turning beds, forming beds, screening crushed concrete	NE1	10.01	10.04								64	55.6				clear									
D Holman	07/07/2010	breaking concrete, turning beds, forming beds, screening crushed concrete	E	9.55	10.00	y	4	manure and odour control	0	2	5	0	156.3	47.2	62	no	no	clear	9.629								
D Holman	07/07/2010	breaking concrete, turning beds, forming beds, screening crushed concrete	SE	9.49	9.54	y	4	odour control and vegetation	1	2	3	0			56	no	no										
D Holman	07/07/2010	breaking concrete, turning beds, forming beds, screening crushed concrete	S	9.47	9.47	y	1	vegetation	1	2	1	0	44.9	42.3	65	no	no										
D Holman	07/07/2010	breaking concrete, turning beds, forming beds, screening crushed concrete	SW	9.36	9.41	y	3	vegetation	0	4	1	0			79	no	no										
D Holman	07/07/2010	breaking concrete, turning beds, forming beds, screening crushed concrete	W	9.30	9.35	y	2	odour control and vegetation	0	4	3	0	61.1	54.5	78	no	no										
D Holman	07/07/2010	breaking concrete, turning beds, forming beds, screening crushed concrete	NW	10.17	10.22	y	2	vegetation	0	2	1	0			76	no	no										
D Holman	07/07/2010	breaking concrete, turning beds, forming beds, screening crushed concrete	N	17.12	17.17	y	3	odour control and general site	0	2	5	0	76.4	69.3	59	no	no	clear	9.199			6	S	27	dry	8	dry	No odour present at Hauxton Parish Church
D Holman	07/07/2010	breaking concrete, turning beds, forming beds, screening crushed concrete	NE	17.06	17.11	y	3	vegetation and odour control	1	2	2	0	54.7	40.8	61	no	no	clear									
D Holman	07/07/2010	breaking concrete, turning beds, screening crushed concrete	NE1	17.00	17.05								117.7	13.1				clear									
D Holman	07/07/2010	breaking concrete, turning beds, screening crushed concrete	E	16.54	16.59	y	2	manure and odour control	0	2	5	0	35.1	29.3	57.5	no	no	clear	9.629								
D Holman	07/07/2010	breaking concrete, turning beds, screening crushed concrete	SE	16.48	16.53	y	1	site odour	0	2	5	0			72	no	no										
D Holman	07/07/2010	breaking concrete, turning beds, screening crushed concrete	S	16.42	16.47	n				2		0	48.9	29.1	66	no	no										
D Holman	07/07/2010	breaking concrete, turning beds, screening crushed concrete	SW	16.36	16.41	y	2	vegetation	0	4	1	0			76	no	no										
D Holman	07/07/2010	breaking concrete, turning beds, screening crushed concrete	W	16.30	16.35	n				4		0	103.4	76.8	78	no	no										
D Holman	07/07/2010	breaking concrete, turning beds, screening crushed concrete	NW	17.18	17.23	y	1	vegetation	1	2	1	0			78	no	no										
D Holman	08/07/2010	breaking concrete, turning beds, screening crushed concrete	N	9.46	9.51	y	2	vegetation and odour control	1	2	3	0	85	79.5	56	no	no	clear	9.209			4	w	21	overcast	8	damp	No odour present at Hauxton Parish Church
D Holman	08/07/2010	breaking concrete, turning beds, screening crushed concrete	NE	9.52	9.57	y	1	vegetation	0	2	1	0	176.3	110.1	62	no	no	clear									
D Holman	08/07/2010	Breaking concrete, turning beds, excavating material, screening crushed concrete	NE1	9.58	10.02								231.4	188.7				clear									
D Holman	08/07/2010	Breaking concrete, turning beds, excavating material, screening crushed concrete	E	10.03	10.08	y	2	vegetation	0	2	1	0	114.3	76.9	55	no	no	clear	9.659								
D Holman	08/07/2010	Breaking concrete, turning beds, excavating material, screening crushed concrete	SE	10.09	10.14	y	3	site odour	0	2	5	0			57	no	no										
D Holman	08/07/2010	Breaking concrete, turning beds, excavating material, screening crushed concrete	S	9.37	9.37	y	2	vegetation	0	2	1	0	202.3	164.4	65	no	no										
D Holman	08/07/2010	Breaking concrete, turning beds, excavating material, screening crushed concrete	SW	9.26	9.31	y	1	vegetation	1	4	1	0			69	no	no										
D Holman	08/07/2010	Breaking concrete, turning beds, excavating material, screening crushed concrete	W	9.20	9.25	y	2	vegetation	0	4	1	0	218.2	81.4	78	no	no										
D Holman	08/07/2010	Breaking concrete, turning beds, excavating material, screening crushed concrete	NW	9.40	9.45	y	2	vegetation	0	2	1	0			79	no	no										
D Holman	08/07/2010	Breaking concrete, turning beds, excavating material, screening crushed concrete	N	16.21	16.37	y	3	vegetation	1	2	1	0	36.5	25.4	58	no	no	clear	9.209			6	sw	38	dry	4	dry	No odour present at Hauxton Parish Church
D Holman	08/07/2010	Breaking concrete, turning beds, excavating material, screening crushed concrete	NE	16.26	16.31	y	2	vegetation	0	2	1	0	133.9	29.2	58	no	no	clear									
D Holman	08/07/2010	excavation of contamination from main dig, turning beds, screening	NE1	16.20	16.25								57.5	19.1				clear									
D Holman	08/07/2010	excavation of contamination from main dig, turning beds, screening	E	16.14	16.19	y	4	b/s and site odour	-1	2	5	0	85.9	8.8	60	no	no	clear	9.659								
D Holman	08/07/2010	excavation of contamination from main dig, turning beds, screening	SE	16.08	16.13	y	2	vegetation	0	2	1	0			66	no	no										
D Holman	08/07/2010	excavation of contamination from main dig, turning beds, screening	S	16.02	16.07	y	1	vegetation	0	2	1	0	81	16.3	71	no	no										
D Holman	08/07/2010	excavation of contamination from main dig, turning beds, screening	SW	15.56	16.01	y	2	vegetation	1	4	1	0			75	no	no										
D Holman	08/07/2010	excavation of contamination from main dig, turning beds, screening	W	15.50	15.55	y	2	vegetation	0	4	1	0	44.4	39.3	76	no	no										
D Holman	08/07/2010	excavation of contamination from main dig, turning beds, screening	NW	16.38	16.43	y	3	vegetation	0	2	1	0			80	no	no										
D Holman	09/07/2010	excavation of contamination from main dig, turning beds, screening	N	9.42	9.47	y	3	odour control and vegetation	0	2	3	0	214.8	68.1	57	no	no	clear	9.219			4	sw	23	dry	7	dry	Complaint from The Lane, Hauxton 3/5 from 4am onwards, readings of up to 1.8ppm in the western part of the site around the excavation. No odour to the south of the site or at Hauxton Parish Church
D Holman	09/07/2010	excavation of contamination from main dig, turning beds, screening	NE	9.36	9.41	y	3	odour control	0	2	5	0	126.3	115.5	59	no	no	clear									
D Holman	09/07/2010	excavating material, turning treatment beds, forming treatment beds	NE1	9.30	9.35								185.3	56.4				clear									
D Holman	09/07/2010	excavating material, turning treatment beds, forming treatment beds	E	9.24	9.29	y	2	odour control	1	2	5	0	119.2	58.3	56	no	no	clear	9.659								
D Holman	09/07/2010	excavating material, turning treatment beds, forming treatment beds	SE	9.18	9.23	y	2	odour control	1	2	5	0			54	no	no										
D Holman	09/07/2010	excavating material, turning treatment beds, forming treatment beds	S	9.12	9.17	y	2	vegetation	1	2	1	0	83.4	28.5	65	no	no										
D Holman	09/07/2010	excavating material, turning treatment beds, forming treatment beds	SW	9.06	9.11	y	1	vegetation	0	4	1	0			72	no	no										
D Holman	09/07/2010	excavating material, turning treatment beds, forming treatment beds	W	9.00	9.05	y	1	vegetation	0	4	1	0	164.8	111	78	no	no										
D Holman	09/07/2010	excavating material, turning treatment beds, forming treatment beds	NW	9.48	9.53	y	1	vegetation	0	2	1	0			75	no	no										
Stephenson	12/07/2010	excavating material, turning treatment beds, forming treatment beds	N	9.35	9.40	n				2		0	125.6	118.8	59.5	no	no	clear	9.209	no	no	1	SE	20.4	Cloud	8	dry	No odour at Parish Church or machinery factory; consistent with wind direction. Smell of Bis(2)chloroethyl ether on car park at Millhouse, north of site.
Stephenson	12/07/2010	excavating material, turning treatment beds, forming treatment beds	NE	9.40	9.45	n				2		0	128.2	23.6	61.6	no	no	clear		no	no							
Stephenson	12/07/2010	Excavating K10 , turning treatment beds, screening crushed concrete	NE1	9.45	9.50								108	21.6				clear		no	no							
Stephenson	12/07/2010	Excavating K10 , turning treatment beds, screening crushed concrete	E	9.50	9.55	n				2		0	104.8	64.2	59.8	no	no	clear	9.659	no	no							
Stephenson	12/07/2010	Excavating K10 , turning treatment beds, screening crushed concrete	SE	9.55	10.00	n				2		0			60.3	no	no			no	no							
Stephenson	12/07/2010	Excavating K10 , turning treatment beds, screening crushed concrete	S	9.15	9.20	n				2		0	33.6	28.1	61.1	no	no			no	no							
Stephenson	12/07/2010	Excavating K10 , turning treatment beds, screening crushed concrete	SW	9.20	9.25	n				4		0			70.2	no	no			no	no							
Stephenson	12/07/2010	Excavating K10 , turning treatment beds, screening crushed concrete	W	9.25	9.30	y	2	natural vegetation	0	4	1	0	19.6	10.5	71.4	no	no			no	no							
Stephenson	12/07/2010	Excavating K10 , turning treatment beds, screening crushed concrete	NW	9.30	9.35	y	3	road. car fumes	-1	2	1	0			65.6	no	no			no	no							
T Walker	12/07/2010	Excavating K10 , turning treatment beds, screening crushed concrete	N	15.25	15.30	n	0	No odour	0	3	1	0	131	79	69.1	no	no	clear	9.209	no	no	12	NE	18	DRY	8	dry	
T Walker	12/07/2010	Excavating K10 , turning treatment beds, screening crushed concrete	NE	15.30	15.35	n	0	No odour	0	3	1	0	79	24	36.4	no	no	clear		no	no							
T Walker	12/07/2010	Excavating in J10, breaking out concrete piles, turning treatment beds	NE1	15.35	15.40								110	28				clear		no	no							
T Walker	12/07/2010	Excavating in J10, breaking out concrete piles, turning treatment beds	E	15.45	15.45	y	2	TCE	-1	3		1.9	129	34	27.8	no	no	clear	9.659	no	no							
T Walker	12/07/2010	Excavating in J10, breaking out concrete piles, turning treatment beds	SE	15.00	15.05	y	0.5	TCE	-1	3	1	0			44.1	no	no			yes	see general notes							Very slight odour on church road outside number 40 almost indiscernible but present in occasional gusts. Along bank of Riddy Brook for 20m stretch odour present in gusts rating of 2/5 PID reads 2.0ppm, in field to the SE of the site no odour detected 0/5.
T Walker	12/07/2010	Excavating in J10, breaking out concrete piles, turning treatment beds	S	15.05	15.10	n	0	No odour	0	1	1	0	45	17	67.9	no	no			no	no							
T Walker	12/07/2010	Excavating in J10, breaking out concrete piles, turning treatment beds	SW	15.10	15.15	n	0	No odour	0	1	1	0			73.8	no	no			no	no							
T Walker	12/07/2010	Excavating in J10, breaking out concrete piles, turning treatment beds	W	15.15	15.20	n	0	No odour	0	1	1	0	48	24	82.6	no	no			no	no							
T Walker	12/07/2010	Excavating in J10, breaking out concrete piles, turning treatment beds	NW	15.20	15.25	n	0	No odour	0	1	1	0			81.9	no	no			no	no							
D Holman	13/07/2010	Excavating in J10, breaking out concrete piles, turning treatment beds	N	10.22	10.27	y	5	vegetation	1	2	1	0	43.9	37.7	58	no	no	clear	9.219			3	SE	16	overcast	8	damp	No odour detected at Hauxton Parish Church
D Holman	13/07/2010	Excavating in J10, breaking out concrete piles, turning treatment beds	NE	10.16	10.21	y	2	vegetation	0	2	1	0	103.4	98.9	56	no	no	clear									
D Holman	13/07/2010	Excavating in J10, breaking out concrete piles, turning treatment beds	NE1	10.11	10.15								163.7	113.8				clear									
D Holman	13/07/2010	Excavating in J10, breaking out concrete piles, turning treatment beds	E	10.04	10.09	y	3	vegetation	0	2	1	0	45.9	28.2	53	no	no	clear	9.649								
D Holman	13/07/2010	Excavating in J10, breaking out concrete piles, turning treatment beds	SE	9.58	10.03	y	1	vegetation	0	2	1	0			50	no	no										
D Holman	13/07/2010	Excavating in J10, breaking out concrete piles, turning treatment beds	S	9.52	9.57	y	2	vegetation	1	2	1	0	68.4	10.5	63	no	no										
D Holman	13/07/2010	Excavating in J10, breaking out concrete piles, turning treatment beds	SW	9.46	9.51	y	1	vegetation	1	4	1	0			76	no	no										
D Holman	13/07/2010	Excavating in J10, breaking out concrete piles, turning treatment beds	W	9.40	9.45	y	2	odour control and site odour	1	4	5	0	24.1	18.3	75	no	no										
D Holman	13/07/2010	Excavating in J10, breaking out concrete piles, turning treatment beds	NW	10.28	10.33	y	3	vegetation	0	2	1	0			78	no	no										
D Holman	13/07/2010	Excavating in J10, breaking out concrete piles, turning treatment beds	N	17.12	17.17	y	1	vegetation	1	2	1	0	111.3	68.9	56	no	no	clear	9.219			3	ESE	18	overcast	8	dry	No site odour detected at Hauxton Parish Church
D Holman	13/07/2010	Excavating in J10, breaking out concrete piles, turning treatment beds	NE	17.06	17.11	y	2	vegetation	0	2	1	0	24.8	18	61	no	no	clear									
D Holman	13/07/2010	Turning beds, excavating material from J10	NE1	17.02	17.05								122	19.5				clear									
D Holman	13/07/2010	Turning beds, excavating material from J10	E	16.41	16.59	y	1	vegetation	0	2	1	0	39.6	24.1	55	no	no	clear	9.649								
D Holman	13/07/2010	Turning beds, excavating material from J10	SE	16.48	16.53	y	3	vegetation	0	2	1	0			53	no	no										
D Holman	13/07/2010	Turning beds, excavating material from J10	S	16.42	16.47	y	2	vegetation	0	2	1	0	68.3	45.1	65	no	no										
D Holman	13/07/2010	Turning beds, excavating material from J10	SW	16.36	16.41	y	3	odour control	1	4	5	0			73	no	no										
D Holman	13/07/2010	Turning beds, excavating material from J10	W	16.30	16.35	y	1	vegetation	0	4	1	0	37.9	16.1	75	no	no										
D Holman	13/07/2010	Turning beds, excavating material from J10	NW	17.18	17.23	y	3	vegetation	1	2	1	0			78	no	no										
D Holman	14/07/2010	Turning beds, excavating material from J10	N	11.22	11.27	y	3	general site odour	0	2	1	0	98.6	47.5	58	no	no	clear	9.219			6	S	20	dry	6	dry	
D Holman	14/07/2010	Turning beds, excavating material from J10	NE	11.16	11.21	n				2		0	154.2	37.9	62	no	no	clear									
D Holman	14/07/2010	Turning beds, excavating material from J10	NE1	11.10	11.15								122	71.8				clear									
D Holman	14/07/2010	Turning beds, excavating material from J10	E	11.04	11.09	y	1	vegetation	0	2	1	0	66.2	36.9	50	no	no	clear	9.659								
D Holman	14/07/2010	Turning beds, excavating material from J10	SE	10.58	11.03	y	1	vegetation	1	2	1	0			54	no	no										
D Holman	14/07/2010	Turning beds, excavating material from J10	S	10.32	10.37	n				2		0	78.3	26.1	64	no	no										
D Holman	14/07/2010	Turning beds, excavating material from J10	SW	10.26	10.31	y	1	vegetation	0	4	1	0			72	no	no										

D Holman	14/07/2010	Turning beds, excavating material from J10	W	10.20	10.25	y	2	vegetation	0	4	1	0	35.9	16.1	78	no	no																			
D Holman	14/07/2010	Turning beds, excavating material from J10	NW	11.28	11.33	y	3	vegetation	1	2	1	0			79	no	no																			
D Holman	14/07/2010	Turning beds, excavating material from J10	N	17.12	17.17	y	2	general site odour	0	2	5	0	25.5	16.1	53	no	no	clear	9.219					8	SSE	21	cloudy	7	dry								
D Holman	14/07/2010	Turning beds, excavating material from J10	NE	17.06	17.11	n							246.1	45.2	58	no	no	clear																		
D Holman	14/07/2010	Turning beds, excavating material from K7 and L7	NE1	17.00	17.05	n							66.7	46.5				clear																		
D Holman	14/07/2010	Turning beds, adding mushroom compost, creating vapour extraction treatment area.	E	16.54	16.59	y	1	vegetation	0	2	1	0	39.2	33.9	54	no	no	clear	9.659																	
D Holman	14/07/2010	Turning beds, adding mushroom compost, creating vapour extraction treatment area.	SE	16.48	16.53	y	2	vegetation	1	2	1	0			52	no	no																			
D Holman	14/07/2010	Turning beds, adding mushroom compost, creating vapour extraction treatment area.	S	16.42	16.47	n				2		0	134	52.2	64	no	no																		
D Holman	14/07/2010	Turning beds, adding mushroom compost, creating vapour extraction treatment area.	SW	16.36	16.41	y	2	vegetation	1	4	1	0			76	no	no																			
D Holman	14/07/2010	Turning beds, adding mushroom compost, creating vapour extraction treatment area.	W	16.30	16.35	y	2	vegetation	0	4	1	0	70.4	45.2	77	no	no																			
D Holman	14/07/2010	Turning beds, adding mushroom compost, creating vapour extraction treatment area.	NW	17.18	17.23	y	3	vegetation	1	2	1	0			80	no	no																			
T Walker	15/07/2010	Turning beds, adding mushroom compost, creating vapour extraction treatment area.	N	11.50	12.00	n	0		0	3	1	0			68.4	no	no	clear	9.209	no	no			18	SE	17	showers	8	damp	Slight very intermittent site odour at site entrance gate. Dust meter not functioning will repair before PM round					
T Walker	15/07/2010	Turning beds, adding mushroom compost, creating vapour extraction treatment area.	NE	12.00	12.05	n	0		0	3	1	0			59.2	no	no	clear		no	no															
T Walker	15/07/2010	Turning beds, adding mushroom compost, creating vapour extraction treatment area.	NE1	12.00	12.05	n									66			clear		no	no														
T Walker	15/07/2010	Turning beds, adding mushroom compost, creating vapour extraction treatment area.	E	12.05	12.10	n	0		0	3	1	0			17.4	no	no	clear	9.659	no	no														
T Walker	15/07/2010	Turning beds, adding mushroom compost, creating vapour extraction treatment area.	SE	12.10	12.15	n	0		0	2	1	0			39.4	no	no			no	no														
T Walker	15/07/2010	Turning beds, adding mushroom compost, creating vapour extraction treatment area.	S	12.15	12.20	n	0		0	1	1	0			48.6	no	no			no	no														
T Walker	15/07/2010	Turning beds, adding mushroom compost, creating vapour extraction treatment area.	SW	11.30	11.35	n	0		0	1	1	0			64.1	no	no			no	no														
T Walker	15/07/2010	Turning beds, adding mushroom compost, creating vapour extraction treatment area.	W	11.35	11.40	y	-1	slight TCE	-1	1	1	0			72.1	no	no			no	no														
T Walker	15/07/2010	Turning beds, adding mushroom compost, creating vapour extraction treatment area.	NW	11.45	11.50	n	0		0	1	1	0			77.8	no	no			no	no														
I Stephenson	15/07/2010	Turning beds, adding mushroom compost, creating vapour extraction treatment area.	N	16.50	16.55	n				2		0			71.3	no	no	Clear	9.209	no	no			12	S	24.6	sunny spells	4	damp	Dustmate not functioning correctly.					
I Stephenson	15/07/2010	Turning beds, adding mushroom compost, creating vapour extraction treatment area.	NE	16.55	17.00	y	2	Bis 2 chloroethylether	0	2	4	0			73.8	no	no	clear		no	no														
I Stephenson	15/07/2010	Moving TB66 to treatment area/turning beds	NE1	17.00	17.05	n												clear		no	no														
I Stephenson	15/07/2010	Moving TB66 to treatment area/turning beds	E	17.05	17.10	n									78.2	no	no	clear	9.659	no	no														
I Stephenson	15/07/2010	Moving TB66 to treatment area/turning beds	SE	17.10	17.15	n				2		0			68.4	no	no			no	no														
I Stephenson	15/07/2010	Moving TB66 to treatment area/turning beds	S	16.30	16.35	n				2		0			65.2	no	no			no	no														
I Stephenson	15/07/2010	Moving TB66 to treatment area/turning beds	SW	16.35	16.40	n				4		0			73	no	no			no	no														
I Stephenson	15/07/2010	Moving TB66 to treatment area/turning beds	W	16.40	16.45	y	3	Bis 2 chloroethylether	-1	4	5	0			74.2	no	no			no	no														
I Stephenson	15/07/2010	Moving TB66 to treatment area/turning beds	NW	16.45	16.50	n				2		0			72.9	no	no			no	no														
T Walker	16/07/2010	Moving TB66 to treatment area/turning beds	N	11.20	11.25	n			0	1	1	0	104	47	68.1	no	no	clear	9.209	no	no			18	SSW	21	dry	4	dry						
T Walker	16/07/2010	Moving TB66 to treatment area/turning beds	NE	11.25	11.30	n			0	1	1	0	281	67	57.4	no	no	clear		no	no														
T Walker	16/07/2010	Relocating beds into L7 K7	NE1	11.30	11.35	y							241	28				clear		no	no														
T Walker	16/07/2010	Relocating beds into L7 K8	E	11.35	11.40	n			0	1	1	0	129	36	43.7	no	no	clear	9.649	no	no														
T Walker	16/07/2010	Relocating beds into L7 K9	SE	11.40	11.45	n			0	3	1	0			48.7	no	no			no	no														
T Walker	16/07/2010	Relocating beds into L7 K10	S	11.00	11.05	n			0	3	1	0	92	33	37.5	no	no			no	no														
T Walker	16/07/2010	Relocating beds into L7 K11	SW	11.05	11.10	n			0	3	1	0			67.5	no	no			no	no														
T Walker	16/07/2010	Relocating beds into L7 K12	W	11.10	11.15	n			0	3	1	0	148	61	68.3	no	no			no	no														
T Walker	16/07/2010	Relocating beds into L7 K13	NW	11.15	11.20	y	-1	slight TCP	-1	1	1	0			74.4	no	no			no	no														
T Walker	16/07/2010	Relocating beds into L7 K14	N	16.40	16.45	n	0				1	0			68.4	no	no	clear	9.209	no	no			14	SE	24	dry	4	dry	Dustmate not functioning correctly send for repair.					
T Walker	16/07/2010	Relocating beds into L7 K15	NE	16.45	16.50	n	0				1	0			59.4	no	no	clear		no	no														
T Walker	16/07/2010	Moving TB66 to treatment area/turning beds	NE1	16.50	16.55	n												clear		no	no														
T Walker	16/07/2010	Moving TB66 to treatment area/turning beds	E	16.55	17.00	n	0					0			62.8	no	no	clear	9.649	no	no														
T Walker	16/07/2010	Moving TB66 to treatment area/turning beds	SE	16.15	16.20	n	0				3	0			47.1	no	no			no	no														
T Walker	16/07/2010	Moving TB66 to treatment area/turning beds	S	16.20	16.25	n	0				3	0			47.1	no	no			no	no														
T Walker	16/07/2010	Moving TB66 to treatment area/turning beds	SW	16.25	16.30	n	0				3	0			71.4	no	no			no	no														
T Walker	16/07/2010	Moving TB66 to treatment area/turning beds	W	16.30	16.35	n	0				3	0			69.4	no	no			no	no														
T Walker	16/07/2010	Moving TB66 to treatment area/turning beds	NW	16.35	16.40	y	2		-1	1	1	0			61.1	no	no			no	no														
D Holman	19/07/2010	Moving TB66 to treatment area/turning beds	N	9.42	9.47	y	2	vegetation	0	2	1	0	36.4	14.1	57	no	no	clear	9.219					6	S	21	dry	3	dry	No odour at Hauxton Parish Church. New dustmate being used on site.					
D Holman	19/07/2010	Moving TB66 to treatment area/turning beds	NE	9.36	9.41	y	1	vegetation	0	2	1	0	142.6	91.8	61	no	no	clear																	
D Holman	19/07/2010	turning beds/loading tb66 into excavation	NE1	9.30	9.35	n							211.9	112.3				clear																	
D Holman	19/07/2010	turning beds/loading tb66 into excavation	E	9.24	9.29	y	2	general site odour	0	2	5	0	128.5	40.1	67	no	no	clear	9.659																
D Holman	19/07/2010	turning beds/loading tb66 into excavation	SE	9.18	9.23	y	1	vegetation	1	2	1	0			51	no	no																		
D Holman	19/07/2010	turning beds/loading tb66 into excavation	S	9.12	9.17	y	2	vegetation	0	2	1	0			55	no	no																		
D Holman	19/07/2010	turning beds/loading tb66 into excavation	SW	9.06	9.11	y	1	vegetation	0	4	1	0			75	no	no																		
D Holman	19/07/2010	turning beds/loading tb66 into excavation	W	9.00	9.05	y	2	vegetation	0	4	1	0	131.2	47.8	77	no	no																		
D Holman	19/07/2010	turning beds/loading tb66 into excavation	NW	9.48	9.53	n	3	vegetation	1	2	1	0			61	no	no																		
D Holman	19/07/2010	turning beds/loading tb66 into excavation	N	17.22	17.27	y	2	vegetation	0	2	1	0	64.3	61.2	55	no	no	clear	9.219					7	S	32	sun	4	dry	PID readings of <0.3ppm between footbridge and kissing gate around the eastern site boundary. No site odour detected at Hauxton Parish Church					
D Holman	19/07/2010	turning beds/loading tb66 into excavation	NE	17.16	17.21	y	3	general site odour	-1	2	5	0	231.3	198.7	63	no	no	clear																	
D Holman	19/07/2010	Excavation in H10 and I10 turning beds	NE1	17.10	17.15	n							214.7	111.3				clear																	
D Holman	19/07/2010	Excavation in H10 and I10 turning beds	E	17.04	17.09	y	3	TCE/PCE and general site odour	-1	2	5	0	69.2	45.6	63	no	no	clear	9.659																
D Holman	19/07/2010	Excavation in H10 and I10 turning beds	SE	16.58	17.03	y	1	general site odour	0	2	5	0			55	no	no																		
D Holman	19/07/2010	Excavation in H10 and I10 turning beds	S	16.52	16.57	y	2	vegetation	0	2	1	0	35.2	15.6	65	no	no																		
D Holman	19/07/2010	Excavation in H10 and I10 turning beds	SW	16.46	16.51	y	1	vegetation	0	4	1	0			71	no	no																		
D Holman	19/07/2010	Excavation in H10 and I10 turning beds	W	16.40	16.45	y	1	vegetation	0	4	1	0	117.8	26.2	76	no	no																		
D Holman	19/07/2010	Excavation in H10 and I10 turning beds	NW	17.28	17.33	y	2	vegetation	1	2	1	0			78	no	no																		
D Holman	20/07/2010	Excavation in H10 and I10 turning beds	N	10.22	10.27	y	3	vegetation	1	2	1	0	203.6	34.8	54	no	no	clear	9.229					4	WSW	20	dry	8	dry	Intermittent PID readings of <11ppm on site near entrance road, Works scaled down to prevent odour migration beyond western site boundary. No odours along Church Road.					
D Holman	20/07/2010	Excavation in H10 and I10 turning beds	NE	10.16	10.21	y	2	general site odour	0	2	5	0	73.1	64.1	57	no	no	clear																	
D Holman	20/07/2010	moving non odorous beds, turning beds	NE1	10.10	10.15	n							222.3	19.2				clear																	
D Holman	20/07/2010	moving non odorous beds, turning beds	E	10.04	10.09	y	3	TCE/PLE and general site odour	-1	2	5	0	177.9	34.3	58	no	no	clear	9.659																
D Holman	20/07/2010	moving non odorous beds, turning beds	SE	9.58	10.03	y	1	vegetation	0	2	1	0			61	no	no																		
D Holman	20/07/2010	moving non odorous beds, turning beds	S	9.52	9.57	y	1	vegetation	0	2	1	0	35.3	26.8	64	no	no																		
D Holman	20/07/2010	moving non odorous beds, turning beds	SW	9.46	9.51	y	2	vegetation	1	4	1	0			69	no	no																		
D Holman	20/07/2010	moving non odorous beds, turning beds	W	9.40	9.45	y	2	vegetation	1	4	1	0	64.3	14.6	79	no	no																		
D Holman	20/07/2010	moving non odorous beds, turning beds	NW	10.28	10.33	y	1	vegetation	0	2	1	0			78	no	no																		
D Holman	20/07/2010	moving non odorous beds, turning beds	N	17.02	17.07	y	1	vegetation and general site odour	0	2	3	0	240.2	79.8	57	no	no	clear	9.229					6	SE	29	sun	5	dry	PID readings of <20ppm on footpath adjacent to Eastern boundary adjacent to the Ridcly Brook foot bridge. Slight odour present on A10 between site entrance and church road <0.2ppm. Excavation of contaminated soils ceased, odorous materials covered to reduce VOC release from site.					
D Holman	20/07/2010	moving non odorous beds, turning beds	NE	16.56	17.01	y	2	vegetation	0	2	1	0	124.8	77.1	59	no	no	clear																	
D Holman	20/07/2010	turning beds, forming beds, excavating material from H10 and I10	NE1	16.50	16.55	n							169.8	105.9				clear																	
D Holman	20/07/2010	turning beds, forming beds, excavating material from H10 and I10	E	16.44	16.49	y	4	TCE/PCE and general site odour	-1	2	5	0.7	84.8	31.1	61	no	no	clear	9.659																
D Holman	20/07/2010	turning beds, forming beds, excavating material from H10 and I10	SE	16.38	16.43	y	2	vegetation	0	2	1	0			60	no	no																		
D Holman	20/07/2010	turning beds, forming beds, excavating material from H10 and I10	S	16.32	16.37	y	2	vegetation	0	2	1	0	12.7	11.6	67	no	no																		
D Holman	20/07/2010	turning beds, forming beds, excavating material from H10 and I10	SW	16.26	16.31	y	2	general site odour	0	4	5	0.2			69	no	no																		
D Holman	20/07/2010	turning beds, forming beds, excavating material from H10 and I10	W	16.20	16.25	y	2	vegetation	0	4	1	0	41.6	22.3	76	no	no																		
D Holman	20/07/2010	turning beds, forming beds, excavating material from H10 and I10	NW	17.08	17.13	y	2	vegetation	0	2	1	0			79	no	no			no	no														
D Holman	21/07/2010	turning beds, forming beds, excavating material from H10 and I10	N	9.32	9.37	y	1	vegetation	0	2	1	0	33	26.2	57	no	no	clear	9.189					5	WSW	21	sun	1	dry						
D Holman	21/07/2010	turning beds, forming beds, excavating material from H10 and I10	NE	9.26	9.31	y	3	general site odour	-1	2	5	0	209.7	119.4	55	no	no	clear																	
D Holman	21/07/2010	turning beds, forming beds, excavating material from H10 and I10	NE1	9.20	9.25	n							52.8	15				clear																	
D Holman	21/07/2010	turning beds, forming beds, excavating material from H10 and I10	E	9.14	9.19	y	5	general site odour	-1	2	5	0	45.4	31.3	66	no	no	clear	9.619																
D Holman	21/07/2010	turning beds, forming beds, excavating material from H10 and I10	SE	9.08	9.13	y	3	general site odour	-1	2	5	0			55	no	no																		
D Holman	21/07/2010	turning beds, forming beds, excavating material from H10 and I10	S	9.02	9.07	y	2	vegetation	0	2	1	0	92.5	6.6	67	no	no																		
D Holman	21/07/2010	turning beds, forming beds, excavating material from H10 and I10	SW	8.56	9.01	y	2	vegetation	1	4	1	0			76	no	no																		
D Holman	21/07/2010	turning beds, forming beds, excavating material from H10 and I10	W	8.50	8.55	y	2	vegetation	1	4	1	0	72	10	79	no	no																		
D Holman	21/07/2010	turning beds, forming beds, excavating material from H10 and I10	NW	9.38	9.43	y	3	vegetation	1	2	1	0			79	no	no																		
D Holman	21/07/2010	turning beds, forming beds, excavating material from H10 and I11	N	16.42	16.47	y	2	vegetation	0	2	1	0	31.9	27.2	61	no	no	clear	9.189					9.3	ww	29.5	sun	4	dry						
D Holman	21/07/2010	turning beds, forming beds, excavating material from H10 and I11	NE	16.36	16.41	y	4	general site odour	-1	2	5	0	64.3	3.7	54	no	no	clear																	
D Holman	21/07/2010	turning beds, forming beds, breaking out concrete from K11	NE1	16.30	16.35	n							116.9	34.1				clear																	
D Holman	21/07/2010	turning beds, forming beds, breaking out concrete from K11	E	16.24	16.29	y	4	general site odour	-1	2	5	0	57.4	46.8	63	no	no	clear	9.619																
D Holman	21/07/2010	turning beds, forming beds, breaking out concrete from K11	SE	16.18	16.23	y	4	general site odour and tce/pce	-1	2	5	0			59	no	no																		
D Holman	21/07/2010	turning beds, forming beds, breaking out concrete from K11	S	16.12	16.17	y	2	vegetation and general site odour	0	2	3	0	72.1	17.6	67	no	no																		
D Holman	21/07/2010	turning beds, forming beds, breaking out concrete from K11	SW	16.06	16.11	y	2	vegetation	0	4	1	0			75	no	no																		
D Holman	21/07/2010	turning beds, forming beds, breaking out concrete from K11	W	16.00	16.05	y	3	vegetation and exhaust fumes	0	4	1	0	10	5.4	77	no	no																		
D Holman	21/07/2010	turning beds, forming beds, breaking out concrete from K11	NW	16.48	16.53	y	2	vegetation	1	2	1	0			78	no	no																		
D Holman	22/07/2010	turning beds, forming beds, breaking out concrete from K11	N	10.52	10.57	y	2	general site odour	0	2	5	0	43.2	24.1	55	no	no	clear	9.199					2	sw	16	cloudy	8	wet						
D Holman	22/07/2010	turning beds, forming beds, breaking out concrete from K11	NE	10.46	10.51	y	1	vegetation	0	2	1	0	50.1	10	57	no	no	clear																	
D Holman	22/07/2010	turning beds, forming beds	NE1	10.40	10.45	n							98.3	42.2				clear																	
D Holman	22/07/2010	turning beds, forming beds	E	10.34	10.39	y	3	general site odour	0	2	5	0	719.4	26.3	58	no	no	clear	9.659																
D Holman	22/07/2010	turning beds, forming beds	SE	10.28	10.33	y	3	vegetation	0	2	1	0			55	no	no																		
D Holman	22/07/2010	turning beds, forming beds	S	10.22	10.27	y	2	vegetation	0	2	5	0	53.3	8.9	64	no	no																		
D Holman	22/07/2010	turning beds, forming beds	SW	10.16	10.21	y	2	vegetation	1	4	1	0			79	no	no																		
D Holman	22/07/2010	turning beds, forming beds	W	10.10	10.15	y	1	vegetation	0	4	1	0	64.4	14.2	77	no	no																		
D Holman	22/07/2010	turning beds, forming beds	NW	10.58	11.03	y	2	vegetation	0	2	1	0			79	no	no																		
D Holman	22/07/2010	turning beds, forming beds	N	17.22	17.27	y	2	vegetation	0	2	1	0	11.3	8.7	61	no	no	clear	9.199					1	SW	18	cloudy	8	wet	No odour at Hauxton Parish Church					
D Holman	22/07/2010	turning beds, forming beds	NE	17.16	17.21	y	4	vegetation	0	2	1	0	60.5	17.5	66	no	no	clear																	
D Holman	22/07/2010	forming treatment beds, turning beds	NE1	17.10	17.15	n							34.5	19.1				clear																	
D Holman	22/07/2010	forming treatment beds, turning beds	E	17.04	17.09	y	4	vegetation	1	2	1	0	33.1	7.8	61	no	no	clear	9.659																
D Holman	22/07/2010	forming treatment beds, turning beds	SE	16.58	17.03	y	3	vegetation	1	2	1	0			54	no	no																		
D Holman	22/07/2010	forming treatment beds, turning beds	S	16.52	16.57	y	2	vegetation	1	2	1	0	51	15.4	69	no	no																		
D Holman	22/07/2010	forming treatment beds, turning beds	SW	16.46	16.51	y	1	vegetation	0	4	1	0			74	no	no																		
D Holman	22/07/2010	forming treatment beds, turning beds	W	16.40	16.45	y	2	vegetation	0	4	1	0	17.7	8.7	78	no	no																		
D Holman	22/07/2010	forming treatment beds, turning beds	NW	17.28	17.33	y	2	vegetation	0	2	1	0			78	no	no																		
D Holman	23/07/2010	forming treatment beds, turning beds	N	10.32	10.37	y	3	vegetation	1	2	1	0	30.8	29.6	57	no	no	clear	9.189					8	N	20	sun	4	damp	PCE/TCE odour present on western site boundary, slight site odour present around former fire exit gate to the south of the site, no odour at Hauxton Parish Church					
D Holman	23/07/2010	forming treatment beds, turning beds	NE	10.26	10.31	y	2	vegetation	1	2	1	0	79.4	55.9	64	no	no	clear																	
D Holman	23/07/2010	forming beds, turning beds	NE1	10.20	10.25	n							88.7	77.7				clear																	
D Holman	23/07/2010	forming beds, turning beds	E	10.14	10.19	y	2	vegetation	0	2	1	0	139.1	51.4	61	no	no	clear	9.659																
D Holman	23/07/2010	forming beds, turning beds	SE	10.08	10.13	y	3	general site odour	0	2	5	0			58	no	no																		
D Holman	23/07/2010	forming beds, turning beds	S	10.02	10.07	y	2	vegetation	1	2	1	0	187.1	41.1	64	no	no																		
D Holman	23/07/2010	forming beds, turning beds	SW	9.56	10.01	y	4	general site odour	0	4	5	0			68	no	no																		
D Holman	23/07/2010	forming beds, turning beds	W	9.50	9.55	y	3	PCE/TCE, odour control and vegetation	0	4	3	0	43	30.5	78	no	no																		
D Holman	23/07/2010	forming beds, turning beds	NW	10.38	10.43	y	2	vegetation	1	2	1	0			76	no	no																		
D Holman	23/07/2010	forming beds, turning beds	N	15.47	15.52	y	3	vegetation	1	2	1	0	22.2	14.2	58	no	no	clear	9.189					2	N	22	Dry	8	Dry	Slight odour at former fire exit gate along the southern boundary of the site < 0.0ppm, slight odour on A10 adjacent to western monitoring location.					
D Holman	23/07/2010	forming beds, turning beds	NE	15.41	15.46	y	3	vegetation	1	2	1	0	87.5	80.6	55	no	no	clear																	
D Holman	23/07/2010	breaking concrete, turning beds, forming beds	NE1	15.35	15.40	n							27.1	17.6				clear																	
D Holman	23/07/2010	breaking concrete, turning beds, forming beds	E	15.29	15.34	y	2	general site odour	0	2	5	0	7.3	6.2	63	no	no	clear	9.659																
D Holman	23/07/2010	breaking concrete, turning beds, forming beds	SE	15.23	15.28	y	2	general site odour	0	2	5	0			64	no	no																		
D Holman	23/07/2010	breaking concrete, turning beds, forming beds	S	15.17	15.22	y	2	vegetation	0	2	1	0	64.2	52.8	69	no	no																		
D Holman	23/07/2010	breaking concrete, turning beds, forming beds	SW	15.11	15.16	y	4	vegetation	0	4	1	0			74	no	no																		
D Holman	23/07/2010	breaking concrete, turning beds, forming beds	W	15.05	15.10	y	2	vegetation	1	4	1	0	65.2	44.6	77	no	no																		
D Holman	23/07/2010	breaking concrete, turning beds, forming beds	NW	15.53	15.58	y	2	vegetation	0	2	1	0			79	no	no																		

D Holman	26/07/2010	breaking concrete, turning beds, forming beds	N	10.42	10.47	y	1	vegetation	0	2	1	0	14.9	8.8	56	no	no	clear	9.209			4	NW	22	Dry	8	Dry	No site odour at Hauxton Parish Church
D Holman	26/07/2010	breaking concrete, turning beds, forming beds	NE	10.36	10.41	y	4	vegetation	1	2	1	0	109.2	41.7	54	no	no	clear											
D Holman	26/07/2010	forming beds, turning beds	NE1	10.30	10.35								46.8	31.9				clear											
D Holman	26/07/2010	turning beds, forming beds	E	10.24	10.29	y	3	general site odour	0	2	5	0	12.6	8.9	56	no	no	clear	9.659										
D Holman	26/07/2010	turning beds, forming beds	SE	10.18	10.23	y	3	general site odour and vegetation	0	2	3	0			53	no	no												
D Holman	26/07/2010	forming beds, turning beds	S	10.12	10.17	y	2	vegetation	0	2	1	0	117.2	65.1	66	no	no												
D Holman	26/07/2010	forming beds, turning beds	SW	10.06	10.11	y	1	vegetation	0	4	1	0			75	no	no												
D Holman	26/07/2010	forming beds, turning beds	W	10.00	10.05	y	2	vegetation	0	4	1	0	10.3	8.2	78	no	no												
D Holman	26/07/2010	forming beds, turning beds	NW	10.48	10.53	y	2	vegetation	1	2	1	0			77	no	no												
D Holman	26/07/2010	turning beds, forming beds	N	16.32	16.37	y	1	vegetation	0	2	1	0	21.1	19.2	51	no	no	clear	9.209			3	WNW	22	dry	8	dry	No odour at Hauxton Parish Church, slight odour present along edge of Church Meadow 2/9 - 0.0ppm Slight odour along A10 between north-western and western monitoring locations rating 2/9 - 0.0ppm.
D Holman	26/07/2010	forming beds, turning beds	NE	16.26	16.31	y	3	odour control and general site	0	2	5	0	97.9	17.8	58	no	no	clear											
D Holman	26/07/2010	turning beds, forming beds	NE1	16.20	16.25								92.3	17				Clear											
D Holman	26/07/2010	turning beds, forming beds	E	16.14	16.19	y	2	vegetation	1	2	1	0	45.1	3.2	55	no	no	clear	9.659										
D Holman	26/07/2010	turning beds, forming beds	SE	16.08	16.13	y	3	general site odour	0	2	5	0			63	no	no												
D Holman	26/07/2010	turning beds, forming beds	S	16.02	16.07	y	2	general site odour	0	2	5	0	13.7	9	68	no	no												
D Holman	26/07/2010	turning beds, forming beds	SW	15.56	16.01	y	2	vegetation	0	4	1	0			74	no	no												
D Holman	26/07/2010	turning beds, forming beds	W	15.50	15.55	y	2	vegetation	0	4	1	0	19.1	17.3	79	no	no												
D Holman	26/07/2010	turning beds, forming beds	NW	16.38	16.43	y	1	vegetation	1	2	1	0			81	no	no												
D Holman	27/07/2010	turning beds, forming beds	N	10.42	10.47	y				2		0	82.4	39.3	53	no	no	clear	9.189			2	WSW	23	dry	8	damp	
D Holman	27/07/2010	turning beds, forming beds	NE	10.36	10.41	y		vegetation and general site odour	0	2	4	0	31.9	13.5	55	no	no	clear											
D Holman	27/07/2010	turning beds, forming beds, breaking out concrete J11	NE1	10.30	10.35								100.8	74.3				Clear											
D Holman	27/07/2010	turning beds, forming beds, breaking out concrete J11	E	10.24	10.29	y	4	general site odour	0	2	5	0	86.7	14.5	53	no	no	clear	9.659										
D Holman	27/07/2010	turning beds, forming beds, breaking out concrete J11	SE	10.18	10.23	y	3	odour control	1	2	5	0			55	no	no												
D Holman	27/07/2010	turning beds, forming beds, breaking out concrete J11	S	10.12	10.17	y	2	general site odour	0	2	5	0	132	27.2	58	no	no												
D Holman	27/07/2010	turning beds, forming beds, breaking out concrete J11	SW	10.06	10.11	y	3	vegetation	1	4	1	0			75	no	no												
D Holman	27/07/2010	turning beds, forming beds, breaking out concrete J11	W	10.00	10.05	y	2	vegetation	0	4	1	0	46.8	37.3	78	no	no												
D Holman	27/07/2010	turning beds, forming beds, breaking out concrete J11	NW	10.48	10.53	y	2	vegetation	1	2	1	0			79	no	no												
D Holman	27/07/2010	turning beds, forming beds, breaking out concrete J11	N	16.42	16.47	y		vegetation	0	2	1	0	100.2	48.7	58	no	no	clear	9.189			5	ssw	25	cloudy	8	wet	No site odour at Hauxton Parish Church, strong site odour north of Riddy Brook footbridge between East and Northeast1 monitoring locations 6 to 11 ppm on PID, Treatment bed being created was covered immediately allow VOC generation on site to reduce.
D Holman	27/07/2010	turning beds, forming beds, breaking out concrete J11	NE	16.36	16.41	y	3	general site odour	0	2	5	0	161.8	66	51	no	no	clear											
D Holman	27/07/2010	turning beds, forming beds	NE1	16.30	16.35								152.6	91.1				clear											
D Holman	27/07/2010	turning beds, forming beds	E	16.24	16.29	y	2	general site odour	0	2	5	0	228.6	128.7	55	no	no	clear	9.659										
D Holman	27/07/2010	turning beds, forming beds	SE	16.18	16.23	y	4	chemical site odour and general site odour	0	2	5	0			53	no	no												
D Holman	27/07/2010	turning beds, forming beds	S	16.12	16.17	y	3	vegetation	1	2	1	0	40.4	34.4	68	no	no												
D Holman	27/07/2010	turning beds, forming beds	SW	16.06	16.11	y	2	vegetation	0	4	1	0			76	no	no												
D Holman	27/07/2010	turning beds, forming beds	W	16.00	16.05	y	4	vegetation and odour control	1	4	3	0	176.8	43.3	77	no	no												
D Holman	27/07/2010	turning beds, forming beds	NW	16.48	16.53	y	2	vegetation	0	2	1	0			79	no	no												
D Holman	28/07/2010	turning beds, forming beds	N	11.02	11.07	y	2	vegetation	1	2	1	0	65.8	7.6	51	no	no	clear	9.219			2	WNW	23	dry	8	damp	No odour at Hauxton Parish Church, TCE odour noted in occasional gusts to the northwest of the site.
D Holman	28/07/2010	turning beds, forming beds	NE	10.58	11.01	y	2	vegetation	1	2	1	0	31.1	6.6	54	no	no	clear											
D Holman	28/07/2010	turning beds, forming new beds	NE1	10.50	10.55								6.5	2				clear											
D Holman	28/07/2010	turning beds, forming new beds	E	10.44	10.49	y	6	TCE/PCE and odour control	-1	2	5	0	21.2	9.4	51	no	no	clear	9.649										
D Holman	28/07/2010	turning beds, forming new beds	SE	10.38	10.43	y	3	TCP/TCE and general site odour	-1	2	5	0			53	no	no												
D Holman	28/07/2010	turning beds, forming new beds	S	10.32	10.37	y	1	vegetation	0	2	1	0	23.4	17.2	65	no	no												
D Holman	28/07/2010	turning beds, forming new beds	SW	10.26	10.31	y	1	vegetation	0	4	1	0			75	no	no												
D Holman	28/07/2010	turning beds, forming new beds	W	10.20	10.25	y	2	vegetation and site odour	1	4	3	0	52.3	31.6	77	no	no												
D Holman	28/07/2010	turning beds, forming new beds	NW	11.08	11.13	y	2	vegetation TCE/PCE	0	2	3	0			75	no	no												
D Holman	28/07/2010	turning beds, forming new beds	N	17.42	17.47	y	2	vegetation	0	2	1	0	37.8	1.6	56	no	no	clear	9.219			4	NNE	23	dry	8	dry	Slight odour present around former fire exit to the south of the site. Odour present along Church Road from southeast site corner. Hauxton church odour 3/9 - 0.0ppm. Excavation stopped 10:00 and odorous material covered for the day.
D Holman	28/07/2010	turning beds, forming new beds	NE	17.36	17.41	y	2	vegetation	0	2	1	0	101.8	27.6	54	no	no	clear											
D Holman	28/07/2010	excavation in J11, turning beds, forming new beds	NE1	17.30	17.35								79.3	31.7				clear											
D Holman	28/07/2010	excavation in J11, turning beds, forming new beds	E	17.24	17.29	y	4	tce/pce and site odour	-1	2	5	0	67.2	5.2	59	no	no	clear	9.649										
D Holman	28/07/2010	excavation in J11, turning beds, forming new beds	SE	17.18	17.23	y	5	tce/pce and site odour	-1	2	5	0.7			65	no	no												
D Holman	28/07/2010	excavation in J11 turning beds, forming new beds	S	17.12	17.17	y	3	general site odour and pce/tce	-1	2	5	0	99.5	45.5	66	no	no												
D Holman	28/07/2010	excavation in J11, turning beds, forming new beds	SW	17.06	17.11	y	3	vegetation	0	4	1	0			76	no	no												
D Holman	28/07/2010	excavation in J11 turning beds, forming new beds	W	17.00	17.05	y	2	vegetation and site odour	0	4	2	0	32.9	4.4	78	no	no												
D Holman	28/07/2010	excavation in J11, turning beds, forming new beds	NW	17.48	17.53	y	1	vegetation	0	2	1	0			79	no	no												
D Holman	29/07/2010	excavation in J11 turning beds, forming new beds	N	9.12	9.17	y	1	vegetation	0	2	1	0	36.5	16.1	50	no	no	clear	9.209			3	NW	17	cloudy	8	dry	
D Holman	29/07/2010	excavation in J11, turning beds, forming new beds	NE	9.06	9.11	y	2	general site odour	0	2	5	0	83.1	48.2	54	no	no	clear											
D Holman	29/07/2010	turning beds, forming beds, breaking concrete J11	NE1	9.00	9.05								163.2	98.7				clear											
D Holman	29/07/2010	turning beds, forming beds, breaking concrete J11	E	8.54	8.59	y	3	tce/pce and general site odour	0	2	5	0	38.4	14.3	52	no	no	clear	9.659										
D Holman	29/07/2010	turning beds, forming beds, breaking concrete J11	SE	8.48	8.53	y	2	general site odour	0	2	5	0			53	no	no												
D Holman	29/07/2010	turning beds, forming beds, breaking concrete J11	S	8.42	8.47	y	1	vegetation and general site odour	0	2	3	0	69.3	18.6	67	no	no												
D Holman	29/07/2010	turning beds, forming beds, breaking concrete J11	SW	8.36	8.41	y	2	vegetation	1	4	1	0			74	no	no												
D Holman	29/07/2010	turning beds, forming beds, breaking concrete J11	W	8.30	8.35	y	2	vegetation	0	4	1	0	132.1	48.4	79	no	no												
D Holman	29/07/2010	turning beds, forming beds, breaking concrete J11	NW	9.18	9.23	y	1	vegetation	0	2	1	0			81	no	no												
D Holman	29/07/2010	turning beds, forming beds, breaking concrete J11	N	17.32	17.37	y	2	vegetation	1	2	1	0	70.2	38.5	56	no	no	clear	9.209			4.4	WNW	20	dry	8	dry	Slight odour at Hauxton Church
D Holman	29/07/2010	turning beds, forming beds, breaking concrete J11	NE	17.26	17.31	y	2	vegetation and general site odour	0	2	3	0	129.2	47.3	54	no	no	clear											
D Holman	29/07/2010	turning beds, forming beds, breaking out piles in K11, K12 and K13	NE1	17.20	17.25								167.9	40.3				clear											
D Holman	29/07/2010	turning beds, forming beds, breaking out piles in K11, K12 and K13	E	17.14	17.19	y	4	tce/pce	-1	2	5	0	101.9	57.1	53	no	no	clear	9.659										
D Holman	29/07/2010	turning beds, forming beds, breaking out piles in K11, K12 and K13	SE	17.08	17.13	y	4	odour control and general site odour	0	2	5	0			58	no	no												
D Holman	29/07/2010	turning beds, forming beds, breaking out piles in K11, K12 and K13	S	17.02	17.07	y	2	tce/pce	0	2	5	0	14.7	7.5	65	no	no												
D Holman	29/07/2010	turning beds, forming beds, breaking out piles in K11, K12 and K13	SW	16.56	17.01	y	2	vegetation	1	4	1	0			75	no	no												
D Holman	29/07/2010	turning beds, forming beds, breaking out piles in K11, K12 and K13	W	16.50	16.55	y	2	vegetation and site odour	0	4	3	0	48.9	23.2	78	no	no												
D Holman	29/07/2010	turning beds, forming beds, breaking out piles in K11, K12 and K13	NW	17.38	17.43	y	1	vegetation	0	2	1	0			79	no	no												
D Holman	30/07/2010	turning beds, forming beds, breaking out piles in K11, K12 and K13	N	9.32	9.37	y	1	vegetation	0	2	1	0	52.1	38.9	52	no	no	clear	9.209			0.5	W	20	dry	6	dry	
D Holman	30/07/2010	turning beds, forming beds, breaking out piles in K11, K12 and K13	NE	9.26	9.31	y		general site odour	0	2	5	0	162.4	22.5	56	no	no	clear											
D Holman	30/07/2010	turning beds, forming beds, breaking out piles in K11, K12 and K13	NE1	9.20	9.25								187.5	107.9				clear											
D Holman	30/07/2010	turning beds, forming beds, breaking out piles in K11, K12 and K13	E	9.14	9.19	y	2	general site odour	0	2	5	0	101.2	59.8	55	no	no	clear	9.659										
D Holman	30/07/2010	turning beds, forming beds, breaking out piles in K11, K12 and K13	SE	9.08	9.13	y	2	vegetation and general site odour	0	2	3	0			54	no	no												
D Holman	30/07/2010	turning beds, forming beds, breaking out piles in K11, K12 and K13	S	9.02	9.07	y	1	vegetation	0	2	1	0	27.3	24.2	63	no	no												
D Holman	30/07/2010	turning beds, forming beds, breaking out piles in K11, K12 and K13	SW	8.56	9.01	y	1	vegetation	0	4	1	0			74	no	no												
D Holman	30/07/2010	turning beds, forming beds, breaking out piles in K11, K12 and K13	W	8.50	8.55	y	2	vegetation and exhaust fumes	0	4	1	0	100.7	59.9	78	no	no												
D Holman	30/07/2010	turning beds, forming beds, breaking out piles in K11, K12 and K13	NW	9.38	9.43	y	3	vegetation and exhaust fumes	0	2	1	0			79	no	no												
D Holman	30/07/2010	turning beds, forming beds, breaking out piles in K11, K12 and K13	N	15.12	15.17	y	2	vegetation	0	2	1	0	46.8	36.1	51	no	no	clear	9.209			2	WSW	22	Dry	8	Dry	
D Holman	30/07/2010	turning beds, forming beds, breaking out piles in K11, K12 and K13	NE	15.06	15.11	y		vegetation and general site odour	0	2	3	0	42.6	29.1	51	no	no	clear											
D Holman	30/07/2010	turning beds, forming beds, excavation in L11,12 and 13	NE1	15.00	15.05								22.8	18.4				clear											
D Holman	30/07/2010	turning beds, forming beds, excavation in L11,12 and 13	E	14.54	14.59	y	3	general site odour	0	2	5	0	116.9	31.6	56	no	no	clear	9.659										
D Holman	30/07/2010	turning beds, forming beds, excavation in L11,12 and 13	SE	14.48	14.53	y	2	general site odour	0	2	5	0			61	no	no												
D Holman	30/07/2010	turning beds, forming beds, excavation in L11,12 and 13	S	14.42	14.47	y	2	vegetation	1	2	1	0	7.6	1.3	63	no	no												
D Holman	30/07/2010	turning beds, forming beds, excavation in L11,12 and 13	SW	14.36	14.41	y	3	vegetation	1	4	1	0			74	no	no												
D Holman	30/07/2010	turning beds, forming beds, excavation in L11,12 and 13	W	14.30	14.35	y	2	vegetation	0	4	1	0	11.4	9.5	79	no	no												
D Holman	30/07/2010	turning beds, forming beds, excavation in L11,12 and 13	NW	15.18	15.23	y	3	vegetation and exhaust fumes	0	2	1	0			80	no	no												

Appendix C

Long term Passive VOC Monitoring

gradko environmental
(A division of Gradko International Ltd.)
St. Martins House, 77 Wales Street Winchester, Hampshire SO23 0RH
tel.: 01962 860331 fax: 01962 841339 e-mail:diffusion@gradko.co.uk

UKAS TESTING 2187

LABORATORY ANALYSIS REPORT

REPORT NUMBER	**AMENDMENT TO LABORATORY REPORT GCMS 4356**
CUSTOMER	**Vertase FLI**
	No1 Middle Bridge Business Park
	Bristol Road
	Portishead BS20 6PN
GRADKO LAB REFERENCE	**GMSE 1246-1256**
DATE SAMPLES RECEIVED	**12.07.10**
BOOKING IN REF.	**D 3641**
JOB NUMBER:	**907BR1/7091**

SEMI-QUANTITATIVE ANALYSIS FOR
TOP 10 VOC'S ON TENAX DIFFUSION TUBES BY GC/MS
Analysis has been carried out in accordance with in-house method GLM 13

Tube Number	**GRA 00226**
Exposure Time(mins)	**40342**
Sample ID	**NORTH**

Top 10 VOC's

Compounds	**ng on tube**	**ppb in air***
Toluene	328.04	4.07
Tetrachloroethylene	262.13	3.25
Bis(2-chloroethyl) ether	22.60	0.28
Tributylamine	20.66	0.26
Benzothiazole	14.07	0.17
Benzene	13.20	0.16
Benzene, 1,3-dichloro-	11.97	0.15
Phenol	9.71	0.12
Benzene, 1,2-dichloro-3-methyl-	9.16	0.11
Benzene, 1,4-dichloro-2-methyl-	8.78	0.11

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REPORT OFFICIALLY CHECKED

Gradko International Ltd
This signature confirms the authenticity of these results
Signed.....
L. Gates, Laboratory Supervisor

gradko environmental
(A division of Gradko International Ltd.)
St. Martins House, 77 Wales Street Winchester, Hampshire SO23 0RH
tel.: 01962 860331 fax: 01962 841339 e-mail:diffusion@gradko.co.uk

UKAS TESTING 2187

LABORATORY ANALYSIS REPORT

Tube Number	**GRA 02692**
Exposure Time(mins)	**40342**
Sample ID	**NORTH EAST**

Top 10 VOC's

Compounds	**ng on tube**	**ppb in air***
Tetrachloroethylene	1147	14
Toluene	1079	13
Benzene, 1,3,5-trichloro-	89.72	1.11
Bis(2-chloroethyl) ether	61.93	0.77
Benzene, 1,3-dichloro-	50.01	0.62
Benzene, 1,2-dichloro-3-methyl-	41.02	0.51
p-Xylene	32.35	0.40
Benzene, 1,2,4-trichloro-3-methyl-	31.20	0.39
Cyclohexane, isocyanato-	23.39	0.29
Phenol	22.92	0.28

Tube Number	**GRA 04758**
Exposure Time(mins)	**40340**
Sample ID	**EAST**

Top 10 VOC's

Compounds	**ng on tube**	**ppb in air***
Tetrachloroethylene	1143	14
Toluene	841.56	10.43
Benzene, 1,2-dichloro-3-methyl-	87.84	1.09
Bis(2-chloroethyl) ether	47.60	0.59
p-Xylene	43.53	0.54
Benzene, 1,3-dichloro-	33.23	0.41
Benzene, 1,2,4-trichloro-3-methyl-	25.61	0.32
Benzene, 1,3-dichloro-2-methyl-	24.41	0.30
1R-.alpha.-Pinene	19.77	0.25
Benzene	18.42	0.23

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UKAS TESTING 2187

LABORATORY ANALYSIS REPORT

Tube Number	**GRA 02761**
Exposure Time(mins)	**40338**
Sample ID	**SOUTH EAST**

Top 10 VOC's

Compounds	**ng on tube**	**ppb in air***
Tetrachloroethylene	671.61	8.32
Toluene	254.47	3.15
Benzene, 1,3-dichloro-	34.37	0.43
Bis(2-chloroethyl) ether	32.16	0.40
Benzene, 1,2-dichloro-3-methyl-	29.58	0.37
Benzene	21.17	0.26
Benzene, 1,2,4-trichloro-3-methyl-	16.05	0.20
p-Xylene	14.92	0.18
Trichloroethylene	14.10	0.17
Phenol	9.59	0.12

Tube Number	**GRA 05965**
Exposure Time(mins)	**40157**
Sample ID	**SOUTH**

Top 10 VOC's

Compounds	**ng on tube**	**ppb in air***
Tetrachloroethylene	71.58	0.89
Toluene	65.10	0.81
Benzothiazole	40.36	0.50
Cyclohexane, isocyanato-	20.03	0.25
Benzene, 1,3-dichloro-	14.92	0.19
Benzene	12.56	0.16
Cyclohexane, isothiocyanato-	11.52	0.14
Trimethylamine	10.72	0.13
p-Xylene	10.42	0.13
Disulfide, dimethyl	10.04	0.12

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UKAS TESTING 2187

LABORATORY ANALYSIS REPORT

Tube Number	**GRA 05220**
Exposure Time(mins)	**40198**
Sample ID	**SOUTH WEST**

Top 10 VOC's

Compounds	**ng on tube**	**ppb in air***
Tetrachloroethylene	226.46	2.82
Toluene	95.23	1.18
Benzene, 1,2-dichloro-3-methyl-	21.00	0.26
Benzene	19.65	0.24
Benzothiazole	18.59	0.23
p-Xylene	18.54	0.23
Benzene, 1,3-dichloro-	12.18	0.15
Benzamide, N,N-dimethyl-	11.48	0.14
Phenol	11.20	0.14
1,4-Methanoazulene, decahydro-4,8,8-trimethyl-9-methylene-, [1S-(1.alpha.,3a.beta.,4.alpha.,8a.beta.)]-	11.03	0.14

Tube Number	**GRA 04835**
Exposure Time(mins)	**40224**
Sample ID	**WEST**

Top 10 VOC's

Compounds	**ng on tube**	**ppb in air***
Tetrachloroethylene	342.76	4.26
Toluene	71.20	0.88
Bis(2-chloroethyl) ether	33.52	0.42
Cyclohexane, isocyanato-	15.23	0.19
Naphthalene	15.21	0.19
Benzene	14.81	0.18
Benzothiazole	14.69	0.18
Cyclohexanone	14.49	0.18
Benzamide, N,N-dimethyl-	14.44	0.18
Phenol	13.33	0.17

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LABORATORY ANALYSIS REPORT

Tube Number	**GRA 03500**
Exposure Time(mins)	**40268**
Sample ID	**NORTH WEST**

Top 10 VOC's

Compounds	**ng on tube**	**ppb in air***
Tetrachloroethylene	152.72	1.90
Toluene	128.77	1.60
Benzene	19.68	0.24
Bis(2-chloroethyl) ether	18.86	0.23
Benzamide, N,N-dimethyl-	14.15	0.18
p-Xylene	12.88	0.16
Formamide, N,N-dimethyl-	12.55	0.16
Benzothiazole	12.45	0.15
Benzene, 1,3-dichloro-	11.96	0.15
o-Xylene	11.21	0.14

Tube Number	**GRA 07184**
Exposure Time(mins)	**40292**
Sample ID	**CHURCH ROAD**

Top 10 VOC's

Compounds	**ng on tube**	**ppb in air***
Naphthalene	74.78	0.93
Toluene	47.08	0.58
Tetrachloroethylene	30.32	0.38
Benzothiazole	26.72	0.33
Phenol	20.66	0.26
Dodecane	17.90	0.22
Benzamide, N,N-dimethyl-	17.54	0.22
Benzene	14.40	0.18
Cyclohexanone	12.64	0.16
Indane	11.61	0.14

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UKAS TESTING 2187

LABORATORY ANALYSIS REPORT

Tube Number	**GRA 05940**
Exposure Time(mins)	**40288**
Sample ID	**QUEENS CLOSE**
Top 10 VOC's	

Compounds	**ng on tube**	**ppb in air***
Benzothiazole	25.65	0.32
1,4-Methanoazulene, decahydro-4,8,8-trimethyl-9-methylene-, [1S-(1.alpha.,3a.beta.,4.alpha.,8a.beta.)]-	21.78	0.27
Toluene	17.70	0.22
Phenol	17.27	0.21
Cyclohexanone	15.14	0.19
Benzene	14.36	0.18
p-Xylene	11.28	0.14
Naphthalene	11.07	0.14
Dodecane	9.88	0.12
Tetrachloroethylene	8.55	0.11

Tube Number	**GRA 03975**
Exposure Time(mins)	**40158**
Sample ID	**WTW**
Top 10 VOC's	

Compounds	**ng on tube**	**ppb in air***
Tetrachloroethylene	16.72	0.21
Cyclohexanone	13.94	0.17
Benzene	12.60	0.16
Toluene	11.56	0.14
Benzamide, N,N-dimethyl-	10.42	0.13
Trichloroethylene	9.82	0.12
Cyclohexane, isocyanato-	8.81	0.11
Formamide, N,N-dimethyl-	8.60	0.11
Benzothiazole	7.70	0.10
Cyclohexane, isothiocyanato-	6.95	0.09

Comments: Results greater than 1000ng are outside of our UKAS accredited calibration range.
Semi-quantitative results are calculated using toluene standards.

Analyst Name M.Angelova **Date of Analysis** 14.07.10
Analyst Signature **Date of Report** 15.07.10

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Appendix D

Directional Dust Monitoring

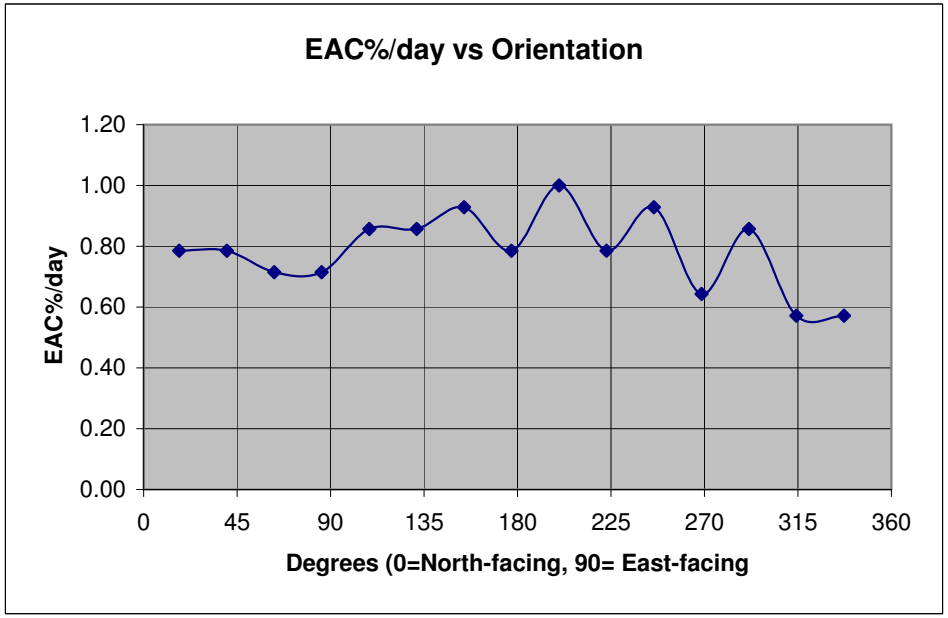
Chemtest

Sticky Pad Data

Gauge Number - North location 907BRI

Sticky Pad Data

Date On	24/06/2010	Date Off	08/07/2010	Days = 14
Clean =	90			
X Axis mm	Meter	Angle deg	EAC%/day	
20	82	337	0.57	
40	82	314	0.57	
60	78	291	0.86	
80	81	269	0.64	
100	77	246	0.93	
120	79	223	0.79	
140	76	200	1.00	
160	79	177	0.79	
180	77	154	0.93	
200	78	131	0.86	
220	78	109	0.86	
240	80	86	0.71	
260	80	63	0.71	
280	79	40	0.79	
300	79	17	0.79	



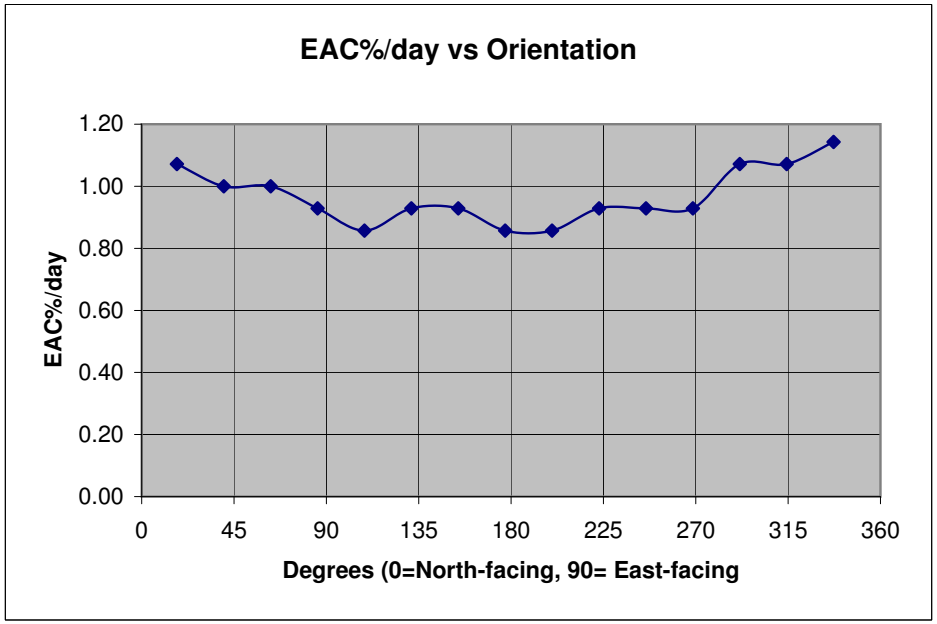
Note: Cells coloured yellow are inputs.
The rest are either constants or calculated values.
The calculation is based on taking readings at 40mm intervals along the sticky pad.

Chemtest **Sticky Pad Data**

Gauge Number - NE1 location 907BRI

Sticky Pad Data

Date On	24/06/2010	Date Off	08/07/2010	Days = 14
Clean =	90			
X Axis mm	Meter	Angle deg	EAC%/day	
20	74	337	1.14	
40	75	314	1.07	
60	75	291	1.07	
80	77	269	0.93	
100	77	246	0.93	
120	77	223	0.93	
140	78	200	0.86	
160	78	177	0.86	
180	77	154	0.93	
200	77	131	0.93	
220	78	109	0.86	
240	77	86	0.93	
260	76	63	1.00	
280	76	40	1.00	
300	75	17	1.07	



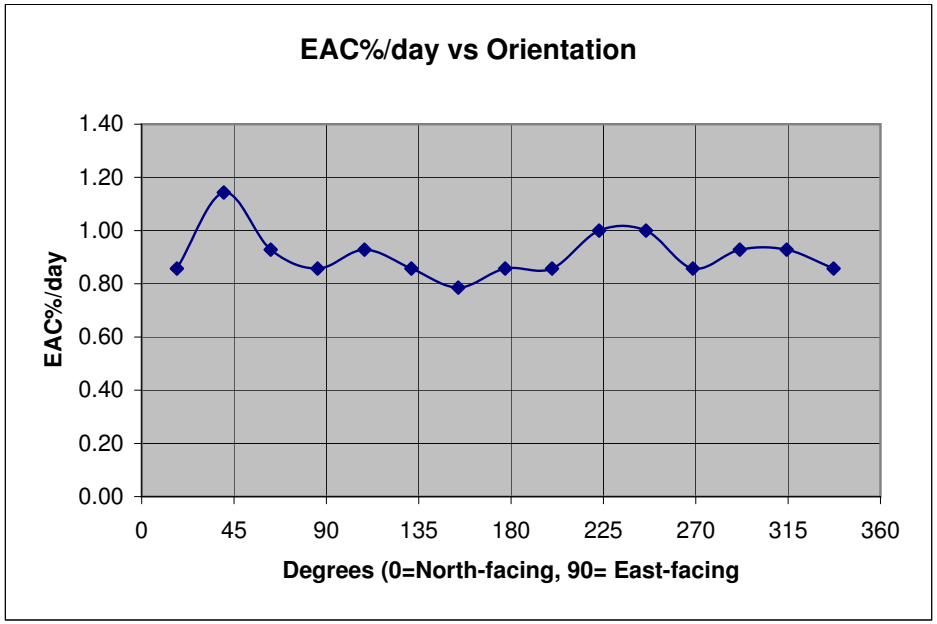
Note: Cells coloured yellow are inputs.
The rest are either constants or calculated values.
The calculation is based on taking readings at 40mm intervals along the sticky pad.

Chemtest **Sticky Pad Data**

Gauge Number - NE2 location 907BRI

Sticky Pad Data

Date On	24/06/2010	Date Off	08/07/2010	Days = 14
Clean =	90			
X Axis mm	Meter	Angle deg	EAC%/day	
20	78	337	0.86	
40	77	314	0.93	
60	77	291	0.93	
80	78	269	0.86	
100	76	246	1.00	
120	76	223	1.00	
140	78	200	0.86	
160	78	177	0.86	
180	79	154	0.79	
200	78	131	0.86	
220	77	109	0.93	
240	78	86	0.86	
260	77	63	0.93	
280	74	40	1.14	
300	78	17	0.86	



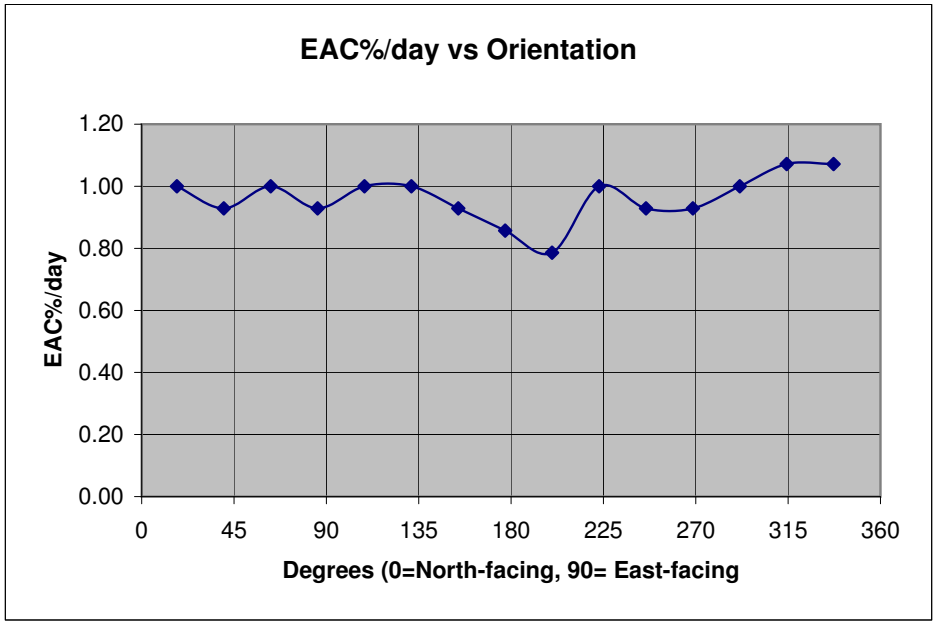
Note: Cells coloured yellow are inputs.
The rest are either constants or calculated values.
The calculation is based on taking readings at 40mm intervals along the sticky pad.

Chemtest **Sticky Pad Data**

Gauge Number - South location 907BRI

Sticky Pad Data

Date On	24/06/2010	Date Off	08/07/2010	Days = 14
Clean =	90			
X Axis mm	Meter	Angle deg	EAC%/day	
20	75	337	1.07	
40	75	314	1.07	
60	76	291	1.00	
80	77	269	0.93	
100	77	246	0.93	
120	76	223	1.00	
140	79	200	0.79	
160	78	177	0.86	
180	77	154	0.93	
200	76	131	1.00	
220	76	109	1.00	
240	77	86	0.93	
260	76	63	1.00	
280	77	40	0.93	
300	76	17	1.00	



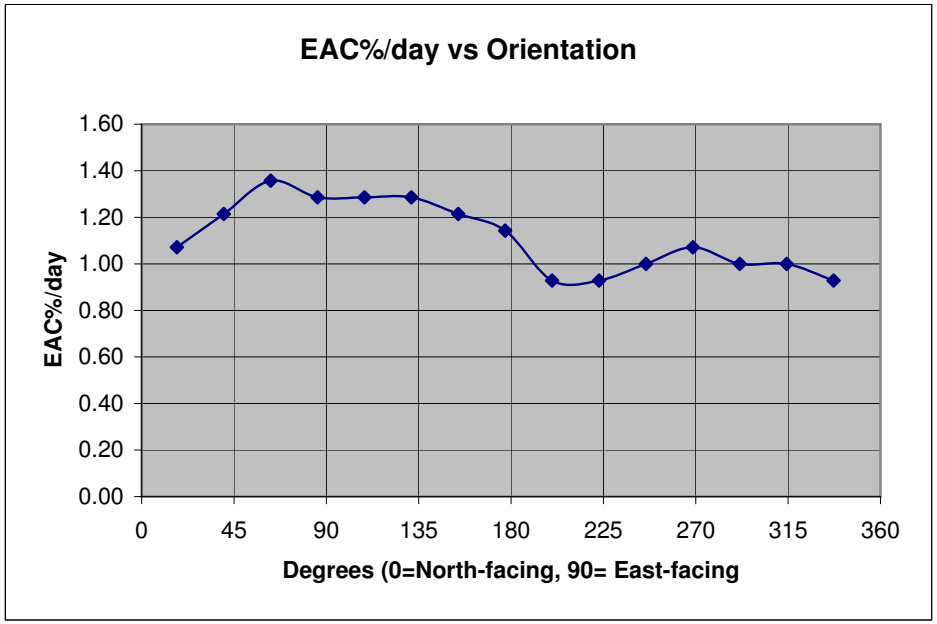
Note: Cells coloured yellow are inputs.
The rest are either constants or calculated values.
The calculation is based on taking readings at 40mm intervals along the sticky pad.

Chemtest **Sticky Pad Data**

Gauge Number - West location 907BRI

Sticky Pad Data

Date On	24/06/2010	Date Off	08/07/2010	Days = 14
Clean =	90			
X Axis mm	Meter	Angle deg	EAC%/day	
20	77	337	0.93	
40	76	314	1.00	
60	76	291	1.00	
80	75	269	1.07	
100	76	246	1.00	
120	77	223	0.93	
140	77	200	0.93	
160	74	177	1.14	
180	73	154	1.21	
200	72	131	1.29	
220	72	109	1.29	
240	72	86	1.29	
260	71	63	1.36	
280	73	40	1.21	
300	75	17	1.07	



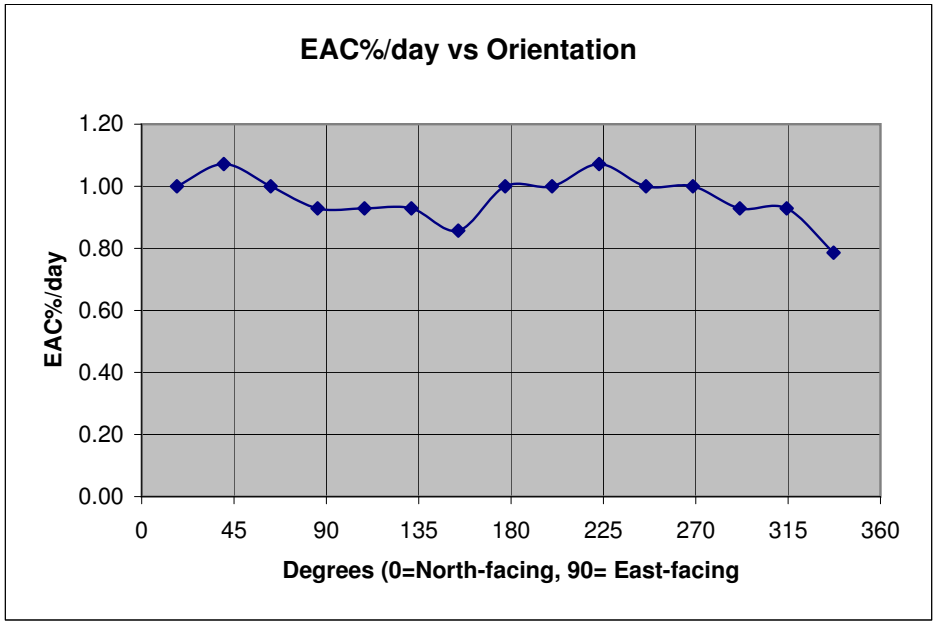
Note: Cells coloured yellow are inputs.
The rest are either constants or calculated values.
The calculation is based on taking readings at 40mm intervals along the sticky pad.

Chemtest **Sticky Pad Data**

Gauge Number - East location 907BRI

Sticky Pad Data

Date On	24/06/2010	Date Off	08/07/2010	Days = 14
Clean =	90			
X Axis mm	Meter	Angle deg	EAC%/day	
20	79	337	0.79	
40	77	314	0.93	
60	77	291	0.93	
80	76	269	1.00	
100	76	246	1.00	
120	75	223	1.07	
140	76	200	1.00	
160	76	177	1.00	
180	78	154	0.86	
200	77	131	0.93	
220	77	109	0.93	
240	77	86	0.93	
260	76	63	1.00	
280	75	40	1.07	
300	76	17	1.00	



Note: Cells coloured yellow are inputs.
The rest are either constants or calculated values.
The calculation is based on taking readings at 40mm intervals along the sticky pad.

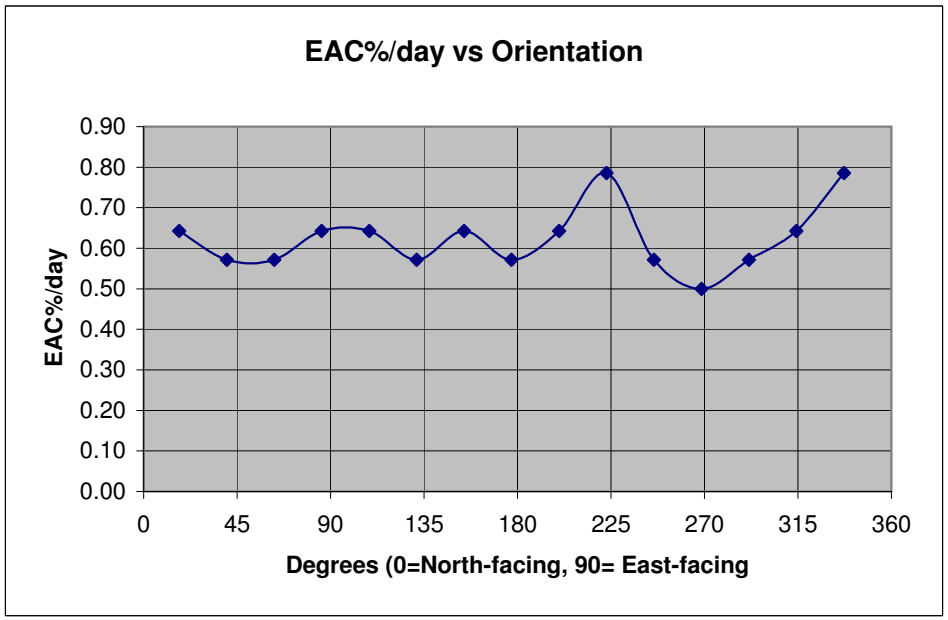
Chemtest

Sticky Pad Data

Gauge Number - North location 907BRI

Sticky Pad Data

Date On	08/07/2010	Date Off	22/07/2010	Days = 14
Clean =	90			
X Axis mm	Meter	Angle deg	EAC%/day	
20	79	337	0.79	
40	81	314	0.64	
60	82	291	0.57	
80	83	269	0.50	
100	82	246	0.57	
120	79	223	0.79	
140	81	200	0.64	
160	82	177	0.57	
180	81	154	0.64	
200	82	131	0.57	
220	81	109	0.64	
240	81	86	0.64	
260	82	63	0.57	
280	82	40	0.57	
300	81	17	0.64	



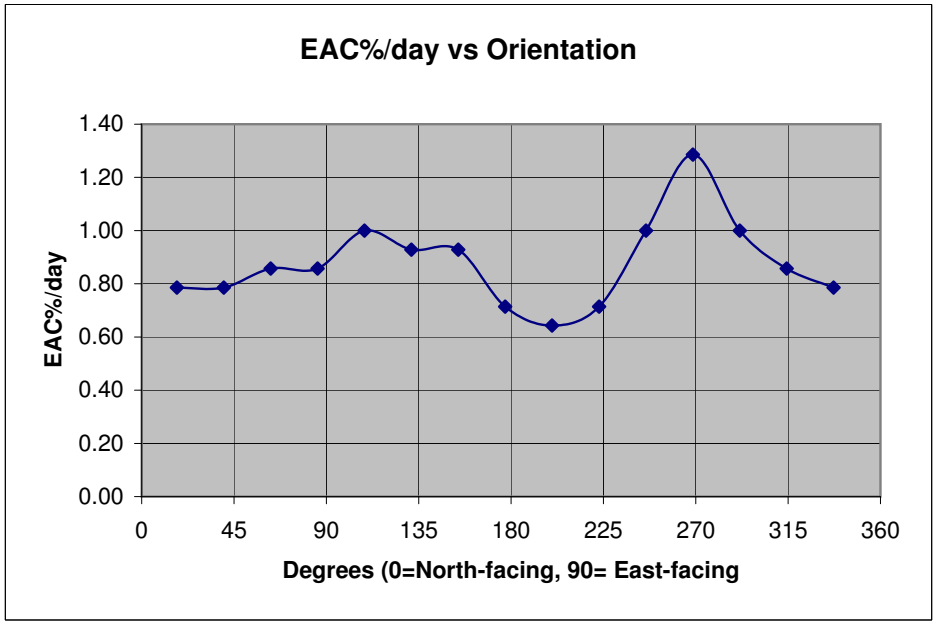
Note: Cells coloured yellow are inputs.
The rest are either constants or calculated values.
The calculation is based on taking readings at 40mm intervals along the sticky pad.

Chemtest **Sticky Pad Data**

Gauge Number - NE1 location 907BRI

Sticky Pad Data

Date On	08/07/2010	Date Off	22/07/2010	Days = 14
Clean =	90			
X Axis mm	Meter	Angle deg	EAC%/day	
20	79	337	0.79	
40	78	314	0.86	
60	76	291	1.00	
80	72	269	1.29	
100	76	246	1.00	
120	80	223	0.71	
140	81	200	0.64	
160	80	177	0.71	
180	77	154	0.93	
200	77	131	0.93	
220	76	109	1.00	
240	78	86	0.86	
260	78	63	0.86	
280	79	40	0.79	
300	79	17	0.79	



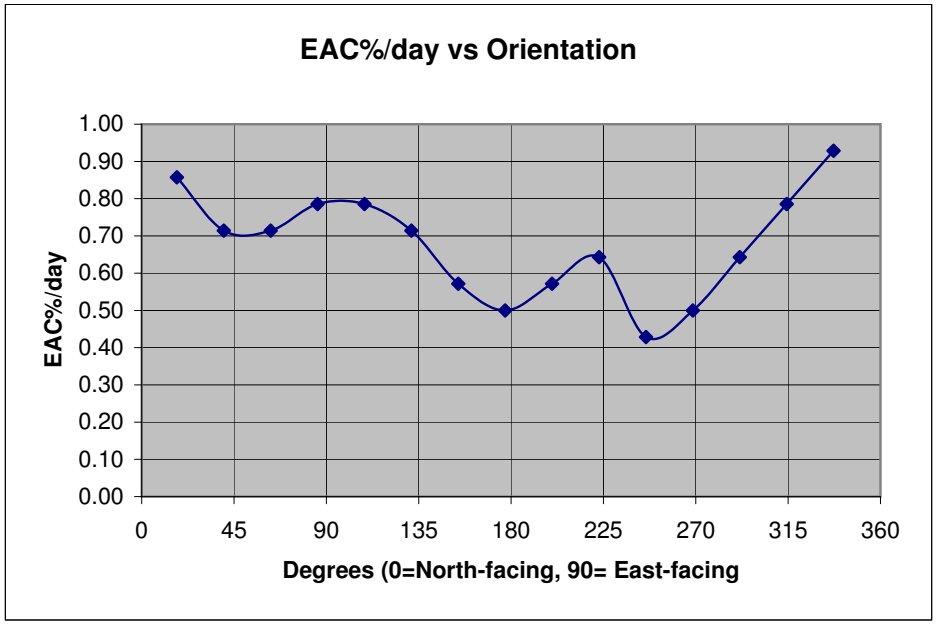
Note: Cells coloured yellow are inputs.
The rest are either constants or calculated values.
The calculation is based on taking readings at 40mm intervals along the sticky pad.

Chemtest **Sticky Pad Data**

Gauge Number - NE2 location 907BRI

Sticky Pad Data

Date On	08/07/2010	Date Off	22/07/2010	Days = 14
Clean =	90			
X Axis mm	Meter	Angle deg	EAC%/day	
20	77	337	0.93	
40	79	314	0.79	
60	81	291	0.64	
80	83	269	0.50	
100	84	246	0.43	
120	81	223	0.64	
140	82	200	0.57	
160	83	177	0.50	
180	82	154	0.57	
200	80	131	0.71	
220	79	109	0.79	
240	79	86	0.79	
260	80	63	0.71	
280	80	40	0.71	
300	78	17	0.86	



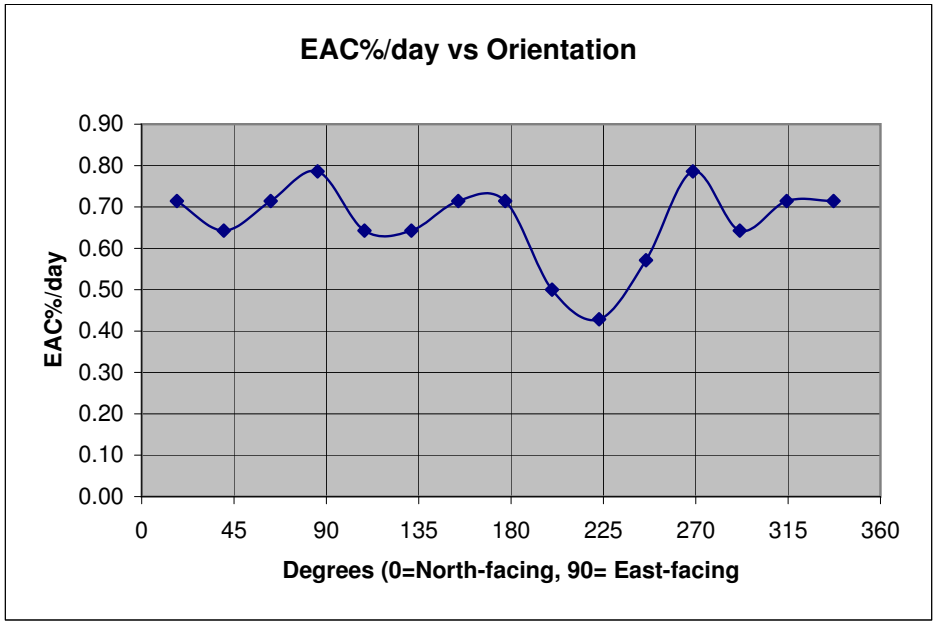
Note: Cells coloured yellow are inputs.
The rest are either constants or calculated values.
The calculation is based on taking readings at 40mm intervals along the sticky pad.

Chemtest **Sticky Pad Data**

Gauge Number - South location 907BRI

Sticky Pad Data

Date On	08/07/2010	Date Off	22/07/2010	Days = 14
Clean =	90			
X Axis mm	Meter	Angle deg	EAC%/day	
20	80	337	0.71	
40	80	314	0.71	
60	81	291	0.64	
80	79	269	0.79	
100	82	246	0.57	
120	84	223	0.43	
140	83	200	0.50	
160	80	177	0.71	
180	80	154	0.71	
200	81	131	0.64	
220	81	109	0.64	
240	79	86	0.79	
260	80	63	0.71	
280	81	40	0.64	
300	80	17	0.71	



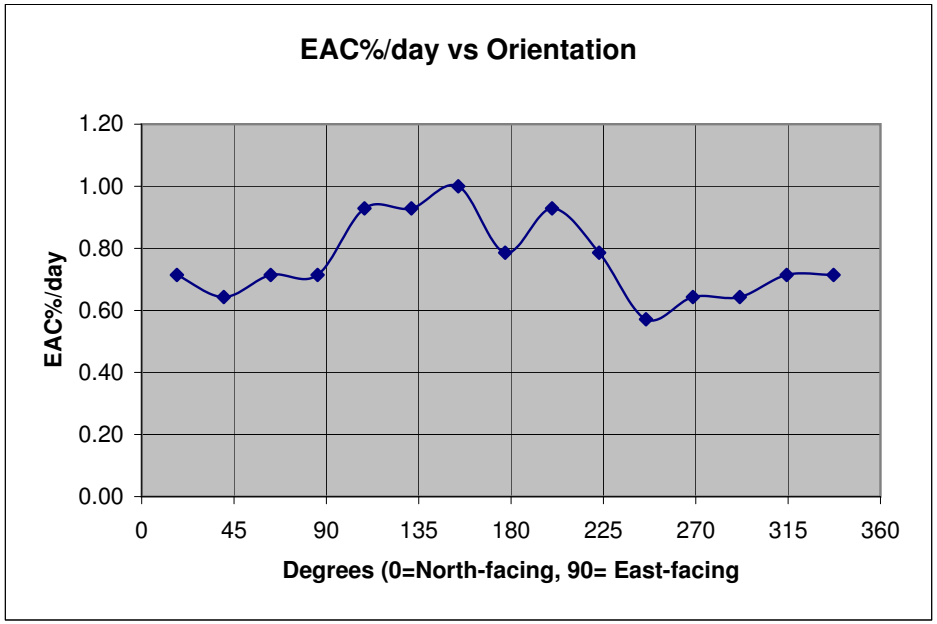
Note: Cells coloured yellow are inputs.
The rest are either constants or calculated values.
The calculation is based on taking readings at 40mm intervals along the sticky pad.

Chemtest **Sticky Pad Data**

Gauge Number - West location 907BRI

Sticky Pad Data

Date On	08/07/2010	Date Off	22/07/2010	Days = 14
Clean =	90			
X Axis mm	Meter	Angle deg	EAC%/day	
20	80	337	0.71	
40	80	314	0.71	
60	81	291	0.64	
80	81	269	0.64	
100	82	246	0.57	
120	79	223	0.79	
140	77	200	0.93	
160	79	177	0.79	
180	76	154	1.00	
200	77	131	0.93	
220	77	109	0.93	
240	80	86	0.71	
260	80	63	0.71	
280	81	40	0.64	
300	80	17	0.71	



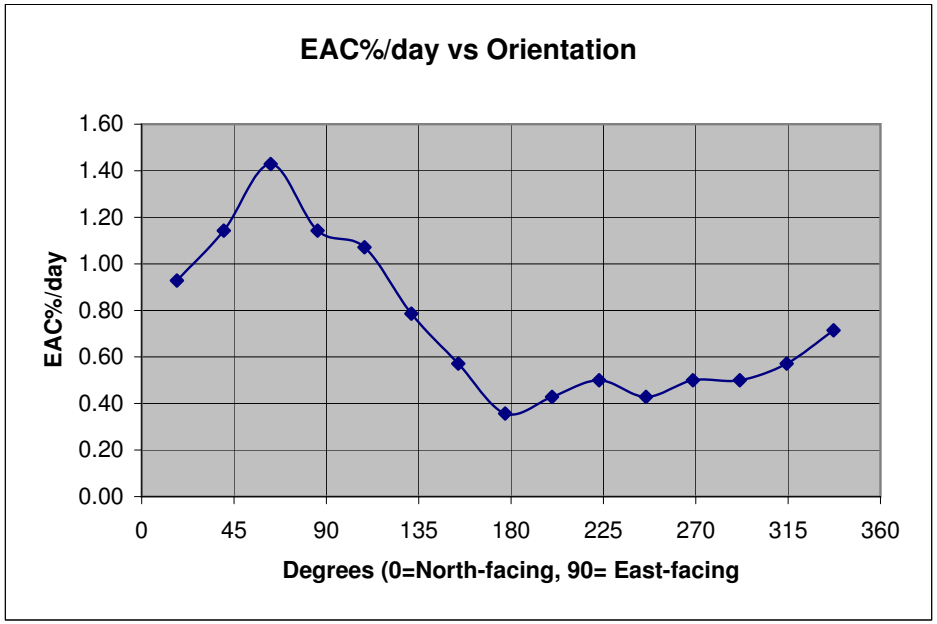
Note: Cells coloured yellow are inputs.
The rest are either constants or calculated values.
The calculation is based on taking readings at 40mm intervals along the sticky pad.

Chemtest **Sticky Pad Data**

Gauge Number - East location 907BRI

Sticky Pad Data

Date On	08/07/2010	Date Off	22/07/2010	Days = 14
Clean =	90			
X Axis mm	Meter	Angle deg	EAC%/day	
20	80	337	0.71	
40	82	314	0.57	
60	83	291	0.50	
80	83	269	0.50	
100	84	246	0.43	
120	83	223	0.50	
140	84	200	0.43	
160	85	177	0.36	
180	82	154	0.57	
200	79	131	0.79	
220	75	109	1.07	
240	74	86	1.14	
260	70	63	1.43	
280	74	40	1.14	
300	77	17	0.93	



Note: Cells coloured yellow are inputs.
The rest are either constants or calculated values.
The calculation is based on taking readings at 40mm intervals along the sticky pad.

Appendix E
Groundwater Level Data

Date	BH6/06	S3/4	BH4	P67**	BH19	BH10B/06	BH9	S1/8	BH11*	S2/6	BH1/06	BH3/06	BH8/06	BHB1	BHB2	BHB3	W1 (n)	W2	W3 (s)	Riddy 1	Riddy 2	Riddy 3	Riddy 4
05/07/2010	10.46	10.54	10.824	Blocked	Lost	10.501	10.469	9.964	9.703	10.963	10.981	covered	9.562	10.12	Lost	Lost	10.36	10.3	10.34	9.199	9.264	9.540	9.639
06/07/2010	10.47	10.54	10.814	Blocked	Lost	10.481	10.469	9.954	9.693	10.953	10.981	covered	9.572	10.13	Lost	Lost	10.36	10.32	10.35	9.199	9.264	9.540	9.629
07/07/2010	10.48	10.54	10.864	Blocked	Lost	10.481	10.459	9.964	9.693	10.963	10.971	covered	9.592	10.15	Lost	Lost	10.39	10.33	10.36	9.199	9.264	9.540	9.629
08/07/2010	10.48	10.57	10.874	Blocked	Lost	10.481	10.459	9.944	9.683	10.953	11.221	covered	9.592	10.15	Lost	Lost	10.39	10.38	10.42	9.209	9.304	9.550	9.659
09/07/2010	10.5	10.57	10.894	Blocked	Lost	10.481	10.459	9.934	9.683	10.953	11.211	covered	9.612	10.16	Lost	Lost	10.4	10.37	10.39	9.219	9.294	9.550	9.659
12/07/2010	10.47	10.56	10.874	Blocked	Lost	10.491	10.449	9.964	9.703	10.973	11.231	covered	9.592	10.15	Lost	Lost	10.41	10.38	10.42	9.209	9.294	9.550	9.659
13/07/2010	10.53	10.57	10.914	Blocked	Lost	10.481	10.449	9.924	9.643	10.943	11.131	covered	9.662	10.2	Lost	Lost	10.43	10.39	10.42	9.219	9.304	9.540	9.649
14/07/2010	10.54	10.58	10.954	Blocked	Lost	10.431	10.449	9.934	9.643	10.943	11.001	covered	9.672	10.22	Lost	Lost	10.45	10.46	10.48	9.219	9.294	9.550	9.659
15/07/2010	10.584	10.56	10.934	Blocked	Lost	Covered	10.449	10.035	9.743	10.973	Lost	covered	9.711	10.389	Lost	Lost	10.389	10.44	10.41	9.209	9.294	9.560	9.659
16/07/2010	10.57	10.56	10.964	Blocked	Lost	Covered	10.469	10.054	9.743	11.013	Lost	covered	9.622	10.38	Lost	Lost	10.38	10.42	10.43	9.209	9.294	9.550	9.649
19/07/2010	10.56	10.58	10.984	Blocked	Lost	10.381	10.449	9.864	9.603	10.933	Lost	covered	9.722	10.24	Lost	Lost	10.47	10.41	10.46	9.219	9.314	9.550	9.659
20/07/2010	10.58	10.58	10.994	Blocked	Lost	10.391	10.469	9.884	9.593	10.943	Lost	covered	9.722	10.25	Lost	Lost	10.49	10.43	10.47	9.229	9.314	9.550	9.659
21/07/2010	10.59	10.53	11.004	Blocked	Lost	10.381	10.419	9.884	9.583	10.923	Lost	covered	9.732	10.26	Lost	Lost	10.5	10.45	10.48	9.189	9.264	9.540	9.619
22/07/2010	10.61	10.54	10.954	Blocked	Lost	10.371	10.429	9.844	9.573	10.933	Lost	covered	9.742	10.25	Lost	Lost	10.5	10.45	10.48	9.199	9.274	9.550	9.659
23/07/2010	10.45	10.55	10.824	Blocked	Lost	10.351	10.429	9.824	9.583	10.923	Lost	covered	9.742	10.16	Lost	Lost	10.48	10.43	10.44	9.189	9.274	9.540	9.659
26/07/2010	10.26	10.54	10.594	Blocked	Lost	10.341	10.419	9.824	9.583	10.903	Lost	covered	9.762	10.08	Lost	Lost	10.32	10.34	10.37	9.209	9.304	9.550	9.659
27/07/2010	10.2	10.53	10.544	Blocked	Lost	10.351	10.429	9.824	9.573	10.913	Lost	covered	9.772	9.96	Lost	Lost	10.35	10.3	10.33	9.189	9.294	9.540	9.659
28/07/2010	10.14	10.58	10.514	Blocked	Lost	10.351	10.389	9.824	9.593	10.913	Lost	covered	9.782	9.93	Lost	Lost	10.32	10.27	10.3	9.219	9.314	9.550	9.649
29/07/2010	10.12	10.59	10.524	Blocked	Lost	10.291	10.399	9.734	9.583	10.883	Lost	covered	9.742	9.94	Lost	Lost	10.33	10.26	10.31	9.209	9.284	9.550	9.659
30/07/2010	10.15	10.58	10.534	Blocked	Lost	10.341	10.389	9.824	9.573	10.893	Lost	covered	9.762	9.92	Lost	Lost	10.29	10.28	10.3	9.219	9.304	9.540	9.659

Appendix F
Surface Water Analysis Reports

Scientific Analysis Laboratories is a limited company registered in England and Wales (No 2514788) whose address is at Hadfield House, Hadfield Street, Manchester M16 9FE

Scientific Analysis Laboratories

Certificate of Analysis

Hadfield House
Hadfield Street
Cornbrook
Manchester
M16 9FE
Tel : 0161 874 2400
Fax : 0161 874 2468

Report Number: 208397-1

Date of Report: 10-Aug-2010

Customer: VertaseFLI Limited
19 Napier Court
Barlborough Links
Barlborough
S43 4PZ

Customer Contact: The Project Management

Customer Job Reference: 907 BRI
Customer Purchase Order: 907 BRI
Date Job Received at SAL: 04-Aug-2010
Date Analysis Started: 04-Aug-2010
Date Analysis Completed: 10-Aug-2010

The results reported relate to samples received in the laboratory
Opinions and interpretations expressed herein are outside the scope of UKAS accreditation
This report should not be reproduced except in full without the written approval of the laboratory
Tests covered by this certificate were conducted in accordance with SAL SOPs

UKAS TESTING
1549

Report checked and authorised by :
Amelia McVennon
Project Manager

Issued by :
Amelia McVennon
Project Manager

Index to symbols used in 208397-1

Value	Description
AR	As Received
162	LOD determined by matrix spike recovery
13	Results have been blank corrected.
9	LOD raised due to dilution of sample
175	Results should be viewed with caution due to being outside of the instrument calibration range
19	Due to high levels the analysis was conducted on a diluted sample
147	Result has been Recovery corrected.
IS	Insufficient Sample
U	Analysis is UKAS accredited
N	Analysis is not UKAS accredited

Method Index

Value	Description
T16	GC/MS
T7	Probe
T54	GC/MS (Headspace)

Accreditation Summary

Determinand	Method	Test Sample	LOD	Units	Symbol	SAL References
Electrical Conductivity	T7	AR	10	µS/cm	N	001-016
pH	T7	AR			U	001-016
Dimefox	T16	AR	0.1	µg/l	N	001-016
Ethofumesate	T16	AR	0.1	µg/l	N	001-016
Hempa	T16	AR	0.1	µg/l	N	001-016
Schradan	T16	AR	0.1	µg/l	N	001-016
Simazine	T16	AR	0.01	µg/l	N	001-016
Dicamba	T16	AR	0.1	µg/l	N	001-016
Dichlorprop	T16	AR	0.1	µg/l	N	001-016
Phenoxy Acetic acid herbicide: MCPA	T16	AR	0.1	µg/l	N	001-016
Mecoprop	T16	AR	0.1	µg/l	N	001-016
2,4,6-Trichlorophenol	T16	AR	10	µg/l	U	001-016
2-Methyl-4,6-dinitrophenol	T16	AR	10	µg/l	N	001-016
4-Chloro-2-methylphenol	T16	AR	10	µg/l	N	001-016
Bis (2-chloroethyl) ether	T16	AR	10	µg/l	U	001-016
Phenol	T16	AR	10	µg/l	U	001-016
1,2-Dichlorobenzene	T54	AR	1	µg/l	U	001-016
1,2-Dichloroethane	T54	AR	1	µg/l	U	001-016
Cis-1,2-Dichloroethylene	T54	AR	1	µg/l	U	001-016
Cyclohexanone	T54	AR	10	µg/l	N	001-016
Tetrachloroethylene	T54	AR	1	µg/l	U	001-016
Toluene	T54	AR	1	µg/l	U	001-016
Trichloroethylene	T54	AR	1	µg/l	U	001-016
Vinyl chloride	T54	AR	1	µg/l	U	001-016
Xylene (Total)	T54	AR	1	µg/l	U	001-016

SAL Reference: 208397
Customer Reference: 907 BRI

Water Analysed as Water
Vertase Hauxton Suite

					SAL Reference	**208397 001**	**208397 002**	**208397 003**	**208397 004**	**208397 005**	**208397 006**	**208397 007**	**208397 008**
					Customer Sample Reference	**bh4/06**	**s1/8**	**bh3/06**	**bh10b/06**	**bh8/06**	**s2/3**	**s2/6**	**bh6/06**
Determinand	**Method**	**Test Sample**	**LOD**	**Units**									
Electrical Conductivity	T7	AR	10	µS/cm		**1400**	**5100**	**3500**	**1200**	**680**	**1100**	**1100**	**1000**
pH	T7	AR				**7.6**	**7.1**	**7.0**	**7.4**	**7.5**	**7.4**	**7.3**	**7.2**

SAL Reference: 208397
Customer Reference: 907 BRI

Water Analysed as Water
Vertase Hauxton Suite

					SAL Reference	**208397 009**	**208397 010**	**208397 011**	**208397 012**	**208397 013**	**208397 014**	**208397 015**	**208397 016**
					Customer Sample Reference	**bh4**	**bh9**	**bh11**	**s3/4**	**cam upstream**	**riddy upstream**	**cam downstream**	**riddy downstream**
Determinand	**Method**	**Test Sample**	**LOD**	**Units**									
Electrical Conductivity	T7	AR	10	µS/cm		(IS) -	**2900**	**670**	(IS) -	**930**	**940**	(IS) -	(IS) -
pH	T7	AR				**7.8**	**7.6**	**7.5**	**7.2**	**8.1**	**8.0**	**8.3**	**8.6**

SAL Reference: 208397
Customer Reference: 907 BRI

Water Analysed as Water
Vertase Hauxton OP/ON Suite

					SAL Reference	**208397 001**	**208397 002**	**208397 003**	**208397 004**	**208397 005**	**208397 006**	**208397 007**	**208397 008**
					Customer Sample Reference	**bh4/06**	**s1/8**	**bh3/06**	**bh10b/06**	**bh8/06**	**s2/3**	**s2/6**	**bh6/06**
Determinand	**Method**	**Test Sample**	**LOD**	**Units**									
Dimefox	T16	AR	0.1	µg/l		(9) <10	(9) <10	(9) <10	<0.1	<0.1	<0.1	<0.1	<0.1
Ethofumesate	T16	AR	0.1	µg/l		**110**	**69**	**41**	**9.7**	**1.9**	**0.2**	**0.1**	<0.1
Hempa	T16	AR	0.1	µg/l		(9) <10	**10**	**20**	<0.1	**0.3**	<0.1	<0.1	<0.1
Schradan	T16	AR	0.1	µg/l		(9) <10	**13**	**51**	<0.1	**0.5**	<0.1	<0.1	<0.1
Simazine	T16	AR	0.01	µg/l		(9) <1.0	**21**	(9) <1.0	**7.3**	**1.3**	**0.06**	**0.11**	<0.01

SAL Reference: 208397
Customer Reference: 907 BRI

Water Analysed as Water
Vertase Hauxton OP/ON Suite

					SAL Reference	**208397 009**	**208397 010**	**208397 011**	**208397 012**	**208397 013**	**208397 014**	**208397 015**	**208397 016**
					Customer Sample Reference	**bh4**	**bh9**	**bh11**	**s3/4**	**cam upstream**	**riddy upstream**	**cam downstream**	**riddy downstream**
Determinand	**Method**	**Test Sample**	**LOD**	**Units**									
Dimefox	T16	AR	0.1	µg/l		<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Ethofumesate	T16	AR	0.1	µg/l		<0.1	**1.7**	**0.3**	**0.2**	<0.1	<0.1	<0.1	<0.1
Hempa	T16	AR	0.1	µg/l		<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Schradan	T16	AR	0.1	µg/l		<0.1	<0.1	<0.1	**3.3**	<0.1	<0.1	<0.1	<0.1
Simazine	T16	AR	0.01	µg/l		<0.01	<0.01	**0.26**	<0.01	<0.01	<0.01	<0.01	<0.01

SAL Reference: 208397
Customer Reference: 907 BRI

Water Analysed as Water
Vertase Hauxton Phenoxy Acid Herbs Suite

					SAL Reference	**208397 001**	**208397 002**	**208397 003**	**208397 004**	**208397 005**	**208397 006**	**208397 007**	**208397 008**
					Customer Sample Reference	**bh4/06**	**s1/8**	**bh3/06**	**bh10b/06**	**bh8/06**	**s2/3**	**s2/6**	**bh6/06**
Determinand	**Method**	**Test Sample**	**LOD**	**Units**									
Dicamba	T16	AR	0.1	µg/l		**0.6**	**36**	**19**	**1.3**	**0.4**	<0.1	<0.1	<0.1
Dichlorprop	T16	AR	0.1	µg/l		**10**	**93**	**450**	**0.6**	**0.1**	<0.1	<0.1	<0.1
Phenoxy Acetic acid herbicide: MCPA	T16	AR	0.1	µg/l		**23**	**520**	**1500**	**31**	**1.8**	<0.1	<0.1	<0.1
Mecoprop	T16	AR	0.1	µg/l		**38**	**200**	**840**	**18**	**2.0**	**0.1**	<0.1	<0.1

SAL Reference: 208397
Customer Reference: 907 BRI

Water Analysed as Water
Vertase Hauxton Phenoxy Acid Herbs Suite

					SAL Reference	**208397 009**	**208397 010**	**208397 011**	**208397 012**	**208397 013**	**208397 014**	**208397 015**	**208397 016**
					Customer Sample Reference	**bh4**	**bh9**	**bh11**	**s3/4**	**cam upstream**	**riddy upstream**	**cam downstream**	**riddy downstream**
Determinand	**Method**	**Test Sample**	**LOD**	**Units**									
Dicamba	T16	AR	0.1	µg/l		<0.1	<0.1	<0.1	**0.1**	<0.1	<0.1	<0.1	<0.1
Dichlorprop	T16	AR	0.1	µg/l		<0.1	<0.1	<0.1	**4.2**	<0.1	<0.1	<0.1	<0.1
Phenoxy Acetic acid herbicide: MCPA	T16	AR	0.1	µg/l		<0.1	<0.1	<0.1	**3.8**	<0.1	<0.1	<0.1	<0.1
Mecoprop	T16	AR	0.1	µg/l		<0.1	**100**	**2.8**	**35**	<0.1	<0.1	<0.1	<0.1

SAL Reference: 208397
Customer Reference: 907 BRI

Water Analysed as Water
Vertase Hauxton SVOC Suite

					SAL Reference	**208397 001**	**208397 002**	**208397 003**	**208397 004**	**208397 005**	**208397 006**	**208397 007**	**208397 008**
					Customer Sample Reference	**bh4/06**	**s1/8**	**bh3/06**	**bh10b/06**	**bh8/06**	**s2/3**	**s2/6**	**bh6/06**
Determinand	**Method**	**Test Sample**	**LOD**	**Units**									
2,4,6-Trichlorophenol	T16	AR	10	µg/l		<10	**10000**	**7600**	**44**	<10	<10	<10	<10
2-Methyl-4,6-dinitrophenol	T16	AR	10	µg/l		<10	<10	<10	<10	<10	<10	<10	<10
4-Chloro-2-methylphenol	T16	AR	10	µg/l		**51**	**17000**	**10000**	**32**	<10	<10	<10	<10
Bis (2-chloroethyl) ether	T16	AR	10	µg/l		**2100**	**15000**	**36000**	**23**	**14**	<10	<10	<10
Phenol	T16	AR	10	µg/l		(162) <50	**(147) 1200**	(162) <50	(162) <50	(162) <50	(162) <50	(162) <50	(162) <50

SAL Reference: 208397
Customer Reference: 907 BRI

Water Analysed as Water
Vertase Hauxton SVOC Suite

					SAL Reference	**208397 009**	**208397 010**	**208397 011**	**208397 012**	**208397 013**	**208397 014**	**208397 015**	**208397 016**
					Customer Sample Reference	**bh4**	**bh9**	**bh11**	**s3/4**	**cam upstream**	**riddy upstream**	**cam downstream**	**riddy downstream**
Determinand	**Method**	**Test Sample**	**LOD**	**Units**									
2,4,6-Trichlorophenol	T16	AR	10	µg/l		<10	<10	<10	<10	<10	<10	<10	<10
2-Methyl-4,6-dinitrophenol	T16	AR	10	µg/l		<10	<10	<10	<10	<10	<10	<10	<10
4-Chloro-2-methylphenol	T16	AR	10	µg/l		<10	<10	<10	<10	<10	<10	<10	<10
Bis (2-chloroethyl) ether	T16	AR	10	µg/l		<10	**930**	<10	**4100**	<10	<10	<10	<10
Phenol	T16	AR	10	µg/l		(162) <50	(162) <50	(162) <50	(162) <50	(162) <50	(162) <50	(162) <50	(162) <50

SAL Reference: 208397
Customer Reference: 907 BRI

Water Analysed as Water
Vertase Hauxton VOC Suite

	SAL Reference	208397 001	208397 002	208397 003	208397 004	208397 005	208397 006	208397 007	208397 008
	Customer Sample Reference	bh4/06	s1/8	bh3/06	bh10b/06	bh8/06	s2/3	s2/6	bh6/06
Determinand	**Method** / **Test Sample** / **LOD** / **Units**								
1,2-Dichlorobenzene	T54 AR 1 µg/l	**54**	(19) **2100**	(19) **1900**	<1	<1	<1	<1	<1
1,2-Dichloroethane	T54 AR 1 µg/l	(13) <1	(13,19) **4800**	(13,19) **2100**	(13) <1	(13) <1	(13) <1	(13) <1	(13) <1
Cis-1,2-Dichloroethylene	T54 AR 1 µg/l	(19) <1	(19) **7100**	(19) **10000**	**130**	<1	<1	<1	<1
Cyclohexanone	T54 AR 10 µg/l	<10	(9,19) <1000	(9,19) <1000	<10	<10	<10	<10	<10
Tetrachloroethylene	T54 AR 1 µg/l	<1	(19) **13000**	(19) **110000**	**9**	**5**	**3**	**2**	**1**
Toluene	T54 AR 1 µg/l	(19,175) **20000**	(175,19) **89000**	(19,175) **39000**	<1	**7**	**170**	**3**	**2**
Trichloroethylene	T54 AR 1 µg/l	<1	(19) **3500**	(19) **73000**	**15**	**2**	**1**	**2**	<1
Vinyl chloride	T54 AR 1 µg/l	<1	(19) **880**	(19) **1100**	**25**	<1	<1	<1	<1
Xylene (Total)	T54 AR 1 µg/l	**890**	(19) **2800**	(19) **13000**	<1	**3**	**6**	**2**	<1

SAL Reference: 208397
Customer Reference: 907 BRI

Water Analysed as Water
Vertase Hauxton VOC Suite

	SAL Reference	208397 009	208397 010	208397 011	208397 012	208397 013	208397 014	208397 015	208397 016
	Customer Sample Reference	bh4	bh9	bh11	s3/4	cam upstream	riddy upstream	cam downstream	riddy downstream
Determinand	**Method** / **Test Sample** / **LOD** / **Units**								
1,2-Dichlorobenzene	T54 AR 1 µg/l	**2**	<1	<1	<1	<1	<1	<1	<1
1,2-Dichloroethane	T54 AR 1 µg/l	(13) **21**	(13) <1	(13) <1	(13) <1	(13) <1	(13) <1	(13) <1	(13) <1
Cis-1,2-Dichloroethylene	T54 AR 1 µg/l	(19) **1700**	**3**	<1	<1	<1	<1	<1	<1
Cyclohexanone	T54 AR 10 µg/l	<10	<10	<10	<10	<10	<10	<10	<10
Tetrachloroethylene	T54 AR 1 µg/l	**5**	**1**	**1**	<1	**3**	**3**	**2**	**2**
Toluene	T54 AR 1 µg/l	**21**	**3**	**2**	**69**	**1**	**1**	<1	<1
Trichloroethylene	T54 AR 1 µg/l	**11**	<1	<1	<1	<1	<1	<1	<1
Vinyl chloride	T54 AR 1 µg/l	**420**	<1	<1	<1	<1	<1	<1	<1
Xylene (Total)	T54 AR 1 µg/l	**150**	<1	<1	**74**	<1	<1	<1	<1

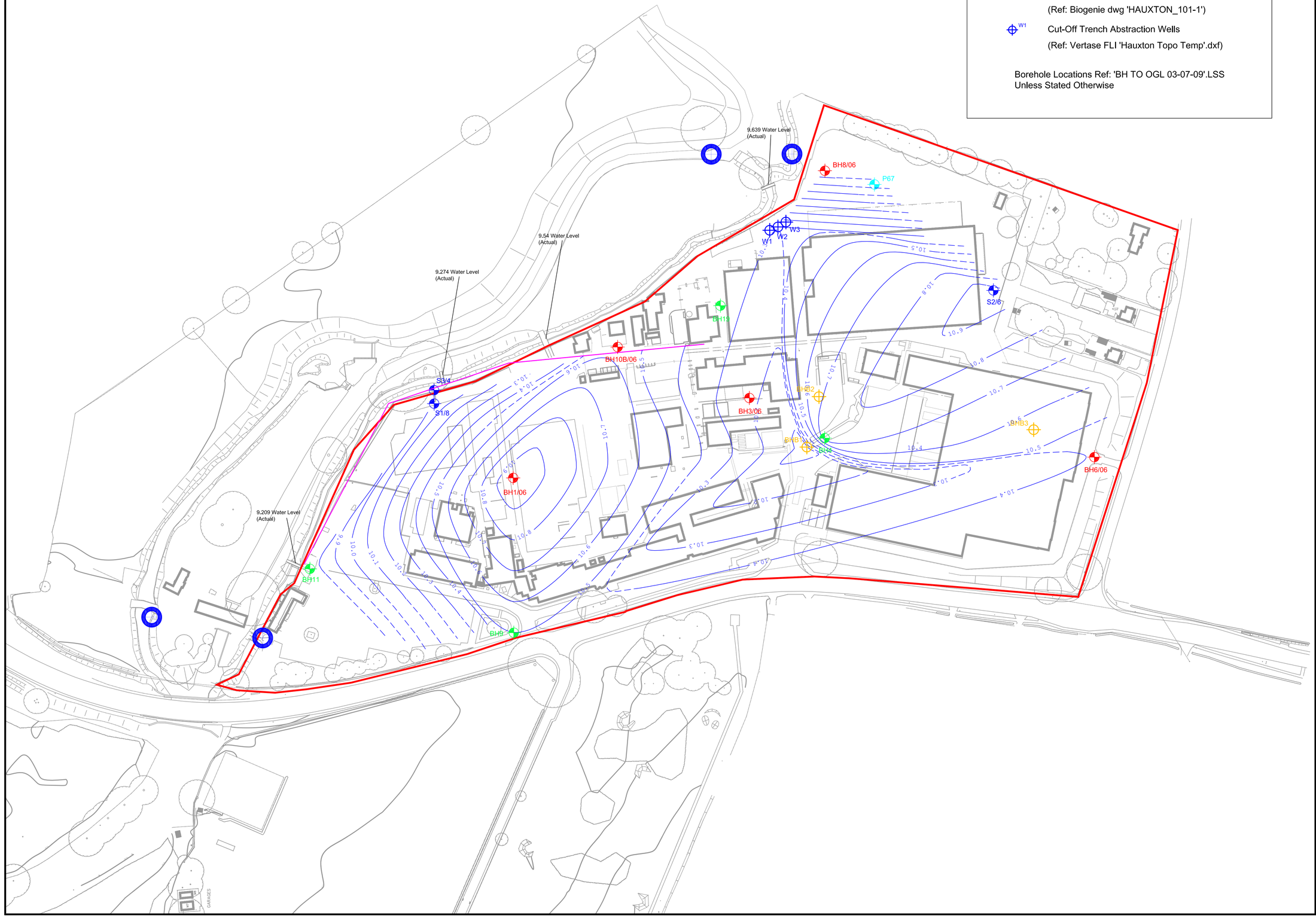
Appendix G
Groundwater Contour Plots

A1

Legend

- BH1/06 — Atkins Exploratory Hole Location
- BH7 / P67 — Previous Borehole Location
- Water Sampling Location
- BHB1 — Biogenie Boreholes (Ref: Biogenie dwg 'HAUXTON_101-1')
- W1 — Cut-Off Trench Abstraction Wells (Ref: Vertase FLI 'Hauxton Topo Temp'.dxf)

Borehole Locations Ref: 'BH TO OGL 03-07-09'.LSS
Unless Stated Otherwise



Rev.	Description	Revised By	Date
	FIRST ISSUE		07-07-10

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email: info@vertasefli.co.uk
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Site Address:
Bayer Site
Hauxton
Cambridge

Rev:

Title: Ground Water Contours 01-07-10

Client: Harrow Estates

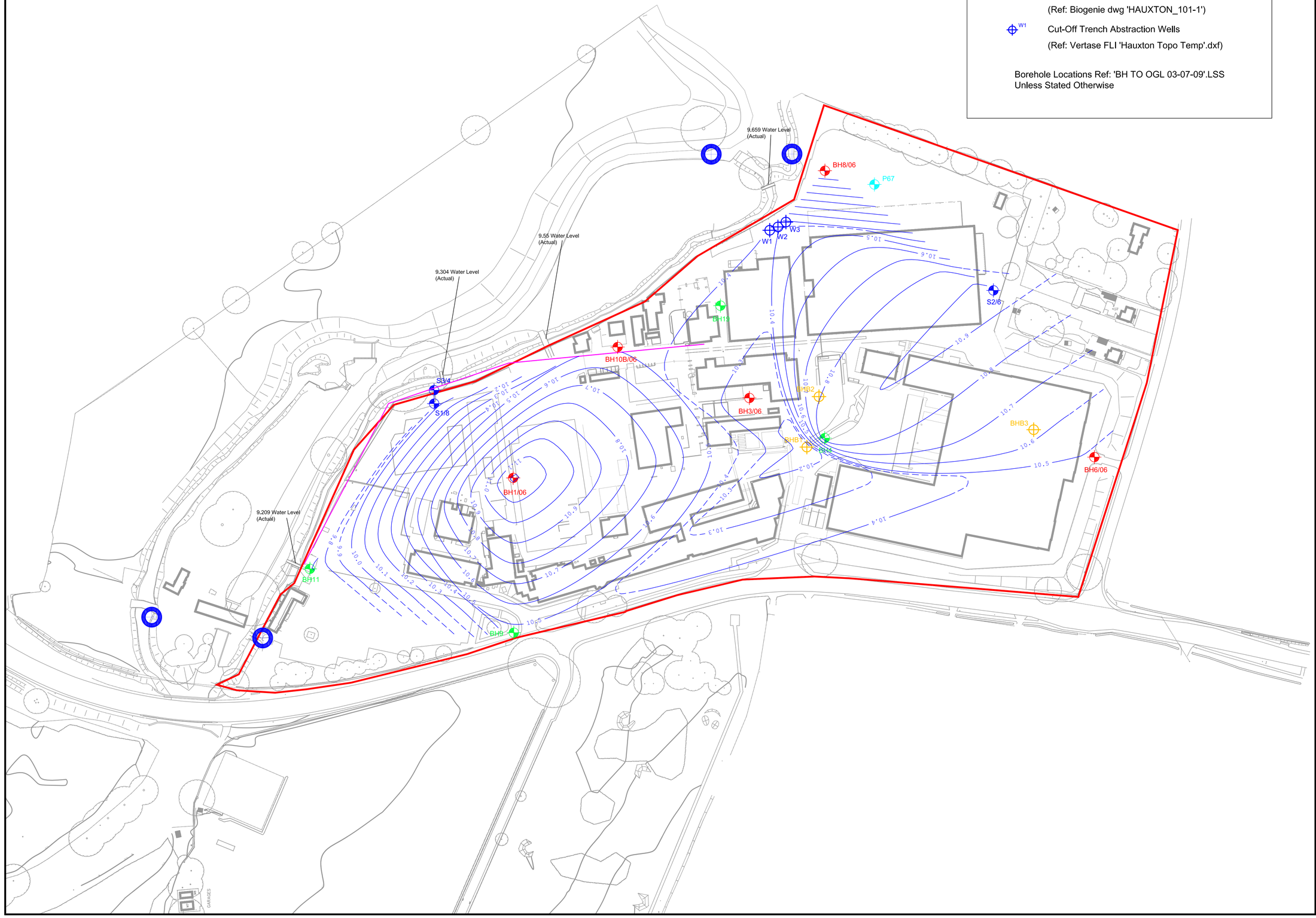
Drawn: MRG	Checked: MA	Approved: MA
Dwg: D907_89	Contract: 907 BRI	Scale: 1:1000

A1

Legend

- BH1/06 — Atkins Exploratory Hole Location
- BH7 / P67 — Previous Borehole Location
- Water Sampling Location
- BHB1 — Biogenie Boreholes (Ref: Biogenie dwg 'HAUXTON_101-1')
- W1 — Cut-Off Trench Abstraction Wells (Ref: Vertase FLI 'Hauxton Topo Temp'.dxf)

Borehole Locations Ref: 'BH TO OGL 03-07-09'.LSS
Unless Stated Otherwise



Rev.	Description	Revised By	Date
	FIRST ISSUE		16-07-10

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Site Address:
Bayer Site
Hauxton
Cambridge

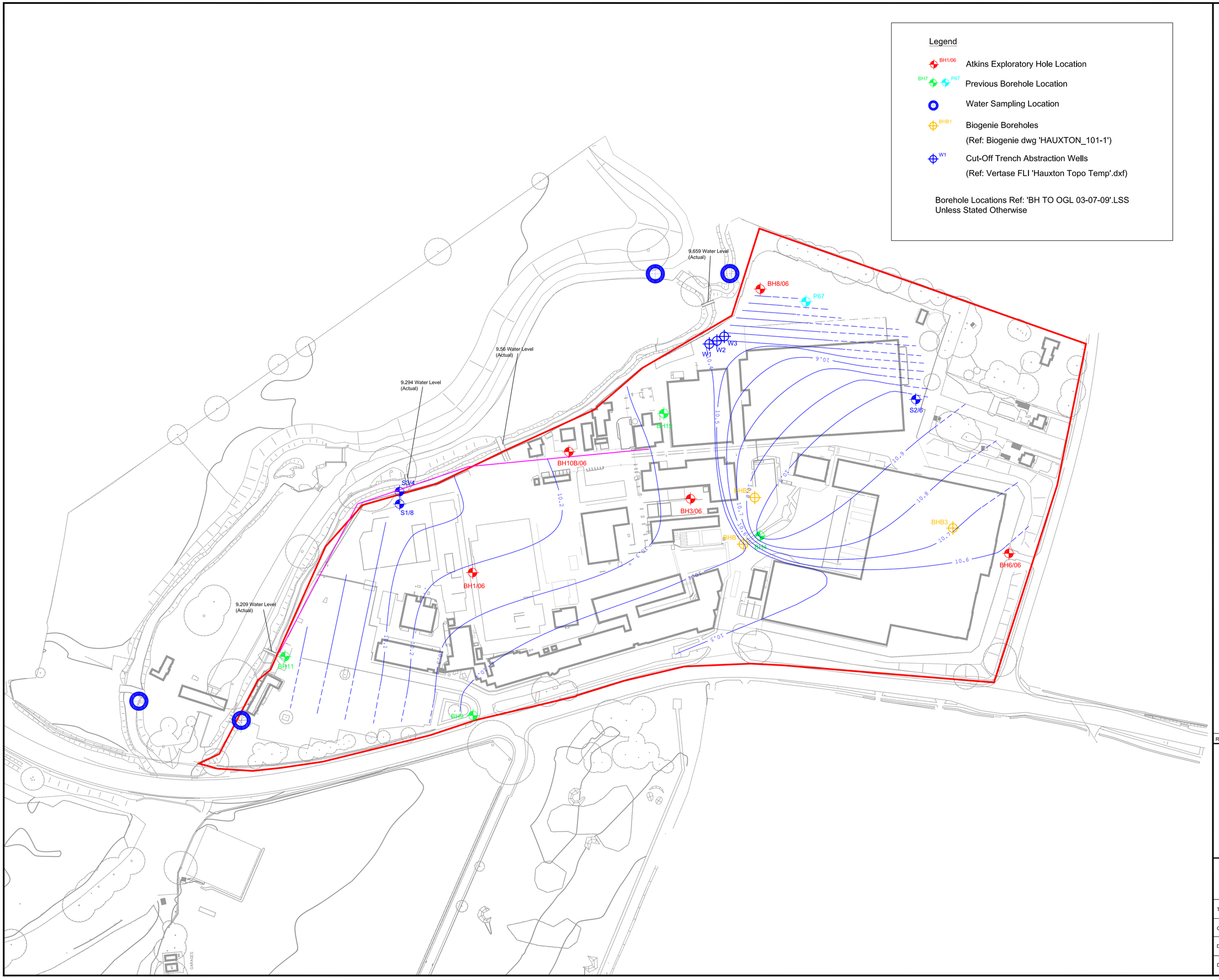
Rev:

Title: Ground Water Contours 08-07-10

Client: Harrow Estates

Drawn: MRG	Checked: MA	Approved: MA
Dwg: D907_90	Contract: 907 BRI	Scale: 1:1000

A1



Rev.	Description	Revised By	Date
	FIRST ISSUE		30-07-10

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Site Address:
Bayer Site
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Cambridge

Rev:

Title: Ground Water Contours 15-07-10

Client: Harrow Estates

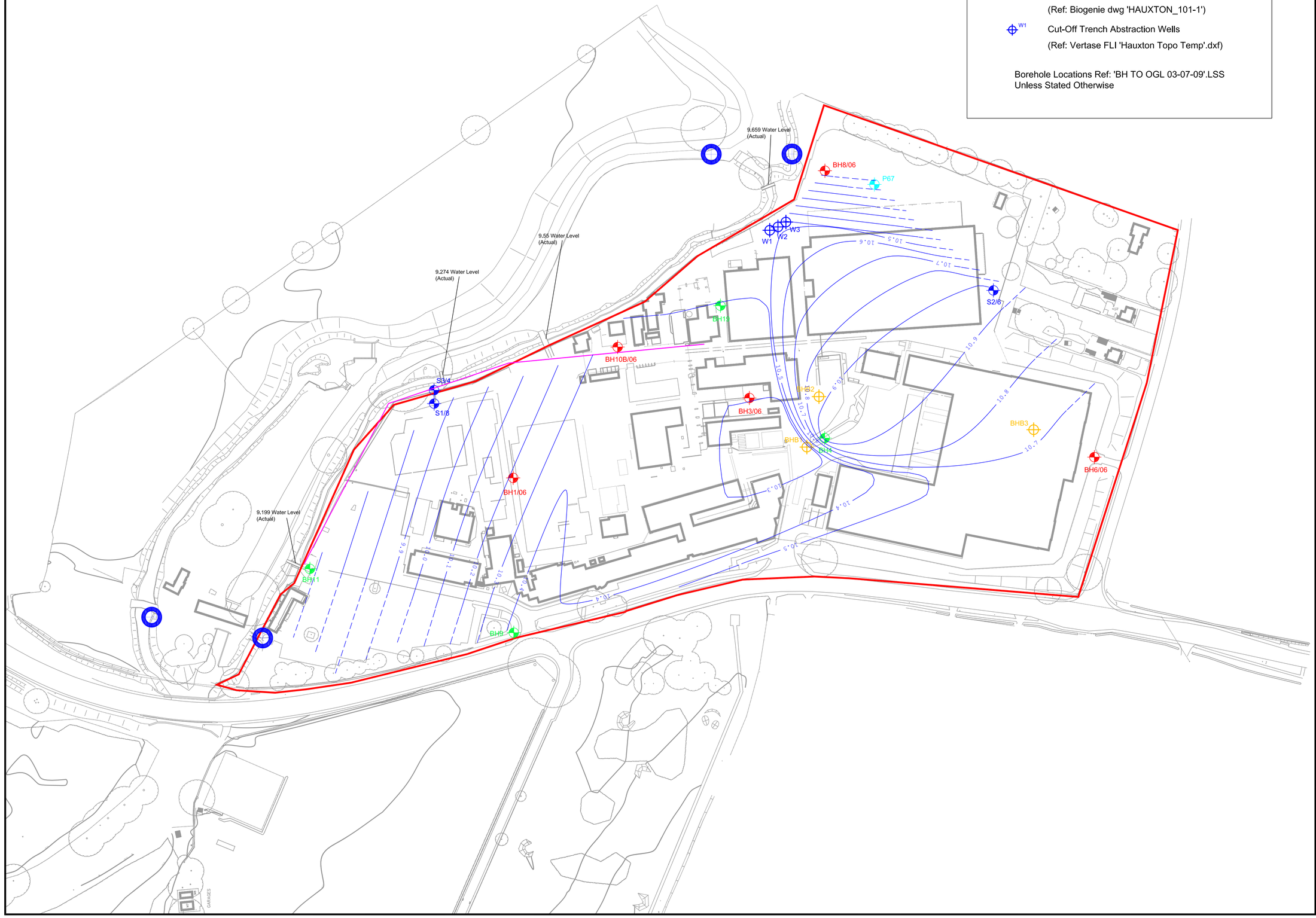
Drawn: MRG	Checked: MA	Approved: MA
Dwg: D907_94	Contract: 907 BRI	Scale: 1:1000

A1

Legend

- BH1/06 — Atkins Exploratory Hole Location
- BH7 / P67 — Previous Borehole Location
- Water Sampling Location
- BHB1 — Biogenie Boreholes (Ref: Biogenie dwg 'HAUXTON_101-1')
- W1 — Cut-Off Trench Abstraction Wells (Ref: Vertase FLI 'Hauxton Topo Temp'.dxf)

Borehole Locations Ref: 'BH TO OGL 03-07-09'.LSS
Unless Stated Otherwise



Rev.	Description	Revised By	Date
	FIRST ISSUE		30-07-10

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Rev:

Title: Ground Water Contours 22-07-10

Client: Harrow Estates

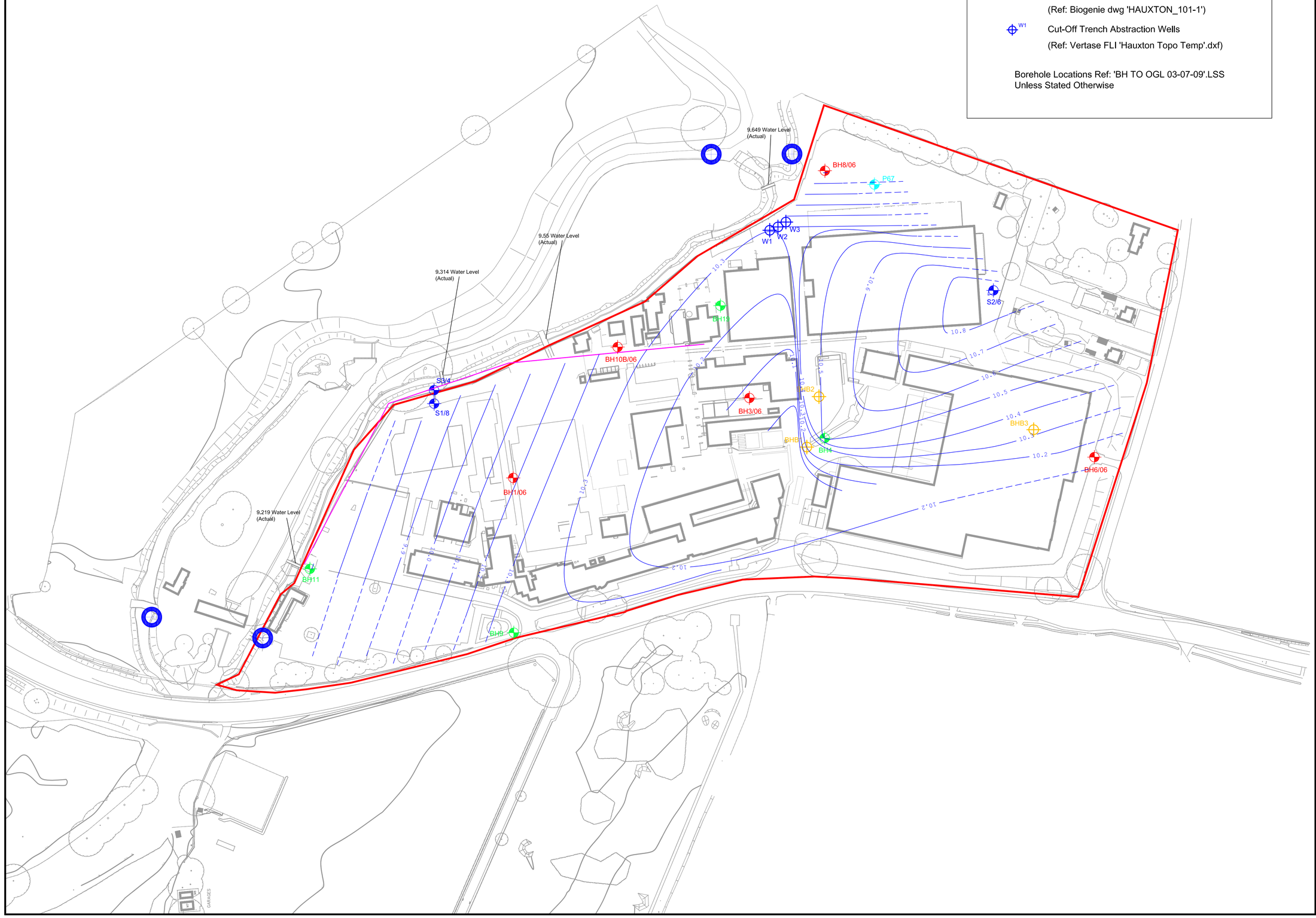
Drawn: MRG	Checked: MA	Approved: MA
Dwg: D907_95	Contract: 907 BRI	Scale: 1:1000

A1

Legend

- BH1/06 — Atkins Exploratory Hole Location
- BH7 P67 — Previous Borehole Location
- Water Sampling Location
- BHB1 — Biogenie Boreholes (Ref: Biogenie dwg 'HAUXTON_101-1')
- W1 — Cut-Off Trench Abstraction Wells (Ref: Vertase FLI 'Hauxton Topo Temp'.dxf)

Borehole Locations Ref: 'BH TO OGL 03-07-09'.LSS
Unless Stated Otherwise



Rev.	Description	Revised By	Date
	FIRST ISSUE		30-07-10

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Rev:

Title: Ground Water Contours 28-07-10

Client: Harrow Estates

Drawn: MRG	Checked: MA	Approved: MA
Dwg: D907_96	Contract: 907 BRI	Scale: 1:1000

Appendix H

Waste Water Treatment Plant Discharge Analysis

Water Quality Analysis of Effluent Discharge Sample

				Bromide	Chloride	Sulphate Ion	Suspended Solids (Total)	Ammoniacal Nitrogen	Biochemical Oxygen Demand	pH	Atrazine	Trietazine	Simazine	Total Atrazine, Trietazine and Simazine	Benazolin	2,3,6-TBA	Dicamba	Hempa	Schradan
Sample Taken	Report Date	Report Number	Sample Location	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l		µg/l	µg/l	µg/l	ug/l	µg/l	µg/l	µg/l	µg/l	µg/l
Consented Levels				*50*	*3000*	*5000*	*45*	*15*	*30*	*na*	*Total of all three*			*250*	*50*	*20*	*50*	*274*	*135*
01/03/2010	17/03/2010	193447	Discharge Point	0.30	84.00	150.00	<10	<0.05	<3	8.4	<0.02	0.07	<0.01	0.07	<0.1	0.40	<0.1	<0.1	<0.1
30/03/2010	09/04/2010	195429	Discharge Point	0.40	110.00	180.00	<10	<0.05	<3	8.7	<0.01	<0.01	<0.01	0.00	<0.1	0.30	<0.1	0.40	<0.1
08/04/2010	13/04/2010	196139	T99 Circ	<1.0	110.00	190.00	<10	<0.05	<3	8.0	<0.01	<0.01	<0.01	0.00	<0.1	<0.1	<0.1	2.90	0.40
10/04/2010	19/04/2010	196379	T100 Circ	<1.0	110.00	190.00	<10	0.05	<3	7.9	<0.01	0.01	<0.01	0.01	<0.1	<0.1	<0.1	0.90	0.30
12/04/2010	21/04/2010	196517	T100 Circ	<1.0	1100.00	200.00	<10	<0.05	<3	8.2	<0.01	<0.01	<0.01	0.00	<0.1	<0.1	<0.1	1.50	<0.1
28/04/2010	19/05/2010	199291	Discharge Point	<1.0	130.00	200.00	<10	<0.05	<3	8.1	<0.01	<0.01	<0.01	0.00	<0.1	<0.1	<0.1	5.10	1.50
07/05/2010	17/05/2010	199176	T99 Discharge	<1.0	110.00	200.00	<10	<0.05	6.60	8.2	<0.01	<0.01	<0.01	0.00	<0.2	3.00	<0.2	3.30	0.60
18/05/2010	01/06/2010	200382	Discharge Point	<1.0	180.00	280.00	<10	0.09	<3	8.0	<0.01	0.01	<0.01	0.01	0.60	5.20	0.20	6.30	3.80
28/05/2010	17/06/2010	201487	Discharge Point	<1.0	130.00	210.00	<10	<0.05	<3	8.1	<0.01	<0.01	<0.01	0.00	<0.1	1.30	<0.1	4.30	1.10
15/06/2010	28/06/2010	203351	WTW Discharge	2.7	240.00	320.00	<10	0.05	<3	8.1	<0.01	0.02	<0.01	0.02	<0.1	2.40	0.2	4.10	1.00
01/07/2010	19/07/2010	205613	WWTW Discharge	3.3	290.00	370.00	13	0.07	<3	8.1	<0.01	<0.01	<0.01	0.00	<0.1	0.40	<0.1	<0.1	<0.1

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Scientific Analysis Laboratories

Certificate of Analysis

Hadfield House
Hadfield Street
Cornbrook
Manchester
M16 9FE
Tel : 0161 874 2400
Fax : 0161 874 2468

Report Number: 205613-2

Date of Report: 19-Jul-2010

Customer: VertaseFLI Limited
19 Napier Court
Barlborough Links
Barlborough
S43 4PZ

Customer Contact: The Project Management

Customer Job Reference: 907 BRI WWTW
Date Job Received at SAL: 08-Jul-2010
Date Analysis Started: 09-Jul-2010
Date Analysis Completed: 19-Jul-2010

The results reported relate to samples received in the laboratory
Opinions and interpretations expressed herein are outside the scope of UKAS accreditation
This report should not be reproduced except in full without the written approval of the laboratory
Tests covered by this certificate were conducted in accordance with SAL SOPs

UKAS TESTING
1549

Report checked and authorised by :
Amelia McVennon
Project Manager

Issued by :
Amelia McVennon
Project Manager

Index to symbols used in 205613-2

Value	Description
AR	As Received
W	Analysis was performed at another SAL laboratory
S	Analysis was subcontracted
U	Analysis is UKAS accredited
N	Analysis is not UKAS accredited

Method Index

Value	Description
T16	GC/MS
T7	Probe
T4	Colorimetry
T253	IC(EID299)
T34	Micro
T2	Grav

Accreditation Summary

Determinand	Method	Test Sample	LOD	Units	Symbol	SAL References
Ammoniacal nitrogen	T4	AR	50	µg/l	U	001-002
Biochemical Oxygen Demand	T7	AR	3000	µg/l	N	001-002
pH	T7	AR			U	001
Atrazine	T16	AR	0.01	µg/l	N	001-002
Trietazine	T16	AR	0.01	µg/l	N	001-002
Benazolin	T16	AR	0.1	µg/l	N	001-002
2,3,6-TCB	T16	AR	0.1	µg/l	N	001-002
Bromide	T253	AR	100	µg/l	WU	001-002
Chloride	T253	AR	200	µg/l	WU	001-002
Sulphate ion	T253	AR	100	µg/l	WU	001-002
Suspended Solids (Total)	T2	AR	10000	µg/l	N	001-002
Dicamba	T16	AR	0.1	µg/l	N	001
Hempa	T16	AR	0.1	µg/l	N	001
Schradan	T16	AR	0.1	µg/l	N	001
Simazine	T16	AR	0.01	µg/l	N	001
TVC at 22°C after 3 days	T34	AR	10	cfu/ml	SN	001-002
TVC at 37°C after 2 days	T34	AR	10	cfu/ml	SN	001-002

SAL Reference: 205613
Customer Reference: 907 BRI WWTW

Water Analysed as Water
Miscellaneous

					SAL Reference	205613 001	205613 002
					Customer Sample Reference	WWTW INPUT	WWTW DISCHARGE
Determinand	**Method**	**Test Sample**	**LOD**	**Units**			
Ammoniacal nitrogen	T4	AR	50	µg/l		**4200**	**70**
Biochemical Oxygen Demand	T7	AR	3000	µg/l		**10000**	<3000
pH	T7	AR				**7.6**	**8.1**

SAL Reference: 205613
Customer Reference: 907 BRI WWTW

Water Analysed as Water
Suite C

					SAL Reference	205613 001	205613 002
					Customer Sample Reference	WWTW INPUT	WWTW DISCHARGE
Determinand	**Method**	**Test Sample**	**LOD**	**Units**			
Bromide	T253	AR	100	µg/l		**4000**	**3300**
Chloride	T253	AR	200	µg/l		**290000**	**290000**
Sulphate ion	T253	AR	100	µg/l		**310000**	**370000**
Suspended Solids (Total)	T2	AR	10000	µg/l		**66000**	**13000**

SAL Reference: 205613
Customer Reference: 907 BRI WWTW

Water Analysed as Water
Suite A

					SAL Reference	205613 001	205613 002
					Customer Sample Reference	WWTW INPUT	WWTW DISCHARGE
Determinand	**Method**	**Test Sample**	**LOD**	**Units**			
Atrazine	T16	AR	0.01	µg/l		**14**	<0.01
Trietazine	T16	AR	0.01	µg/l		**16**	<0.01

SAL Reference: 205613
Customer Reference: 907 BRI WWTW

Water Analysed as Water
Suite B

					SAL Reference	205613 001	205613 002
					Customer Sample Reference	WWTW INPUT	WWTW DISCHARGE
Determinand	**Method**	**Test Sample**	**LOD**	**Units**			
Benazolin	T16	AR	0.1	µg/l		**180**	<0.1
2,3,6-TCB	T16	AR	0.1	µg/l		**280**	**0.4**

SAL Reference: 205613
Customer Reference: 907 BRI WWTW

Water Analysed as Water
Suite D

					SAL Reference	205613 001	205613 002
					Customer Sample Reference	WWTW INPUT	WWTW DISCHARGE
Determinand	**Method**	**Test Sample**	**LOD**	**Units**			
Dicamba	T16	AR	0.1	µg/l		**14**	<0.1
Hempa	T16	AR	0.1	µg/l		**16**	<0.1
Schradan	T16	AR	0.1	µg/l		**25**	<0.1
Simazine	T16	AR	0.01	µg/l		**6.5**	<0.01

SAL Reference: 205613
Customer Reference: 907 BRI WWTW

Water Analysed as Water
Suite E

	SAL Reference	205613 001	205613 002
	Customer Sample Reference	WWTW INPUT	WWTW DISCHARGE
Determinand	**Method**	**Test Sample**	**LOD**	**Units**		
TVC at 22°C after 3 days	T34	AR	10	cfu/ml	> **10000**	> **10000**
TVC at 37°C after 2 days	T34	AR	10	cfu/ml	> **10000**	**7200**

Appendix I

Soil Characterisation Results Summary

Results Received	Reported to SCDC	Grid square	Contaminant	Concentration (µg/kg)	Likely use/origin
12.04.2010	06.05.2010	K15	VOC/SVOC peaks detected		
12.04.2010	06.05.2010	K16	Series of Aromatic Hydrocarbons circa C_{13}-C_{16}	17,000	Potential herbicide degradation products. The structrues are smaller and less complex than contaminants of concern and will therefore degrade more readily than the target contaminants and will be captured by the remediation process.
15.04.2010	06.05.2010 (09.06.2010)	J16	2(1-methylpropyl)-phenol	10,000	Encountered and assessed during site investigation, not a priority contaminant
			2,6-bis(1-methylpropyl)-phenol	100,000	Commonly used in the manufacture of specialty surfactants used as wetting agents for agrochemicals.
			2,6-bis(1,1-dimethylethyl)-4-(1-methylpropyl)-phenol	6,000	Commonly used as an antioxidant and stabiliser, also used in oils used in industrial applications.
			Unidentified branched aromatic alcohol, C_{14}	240,000	Potential herbicide degradation products. The structrues are smaller and less complex than contaminants of concern and will therefore degrade more readily than the target contaminants and will be captured by
			Unidentified branched aromatic alcohol, C_{18}	290,000	
15.04.2010	06.05.2010	K14	Phenanthrene	4,100	Encountered and assessed during site investigation, concentration below target value
			Fluoranthene	4,800	
			Pyrene	3,900	
			Benzo(b/k)Fluoranthene	2,200	
07.05.2010	24.05.2010	K9	Dodecanoic acid (Lauric acid), isooctyl ester	2,400	Lauric acid - main acid in coconut oil and palm kernel oil, is non-toxic and safe to handle, is used in many soaps, shampoos and body butters.
			Unidentified Aliphatic Hydrocarbon circa C_{30}	2,300	Potential herbicide degradation products. The structrues are smaller and less complex than contaminants of concern and will therefore degrade more readily than the target contaminants and will be captured by the remediation process.

07.05.2010	24.05.2010 (09.06.2010)	L8	2,4-Dichloro-o-cresol	9,000	Potential herbicide degradation product
			Bis(2-ethylhexyl) maleate	3,800	Commonly used as an intermediate in hydrogenation or acetylation reactions, possibly used in agrochemicals manufacture
			Cyclo octaatomic sulphur	2,800	S_8 is the most common form of sulphur in the solid state, widely used in insecticide and fungicide manufacture
			Dodecanoic acid (Lauric acid), isooctyl ester	7,400	Lauric acid - main acid in coconut oil and palm kernel oil, is non-toxic and safe to handle, is used in many soaps, shampoos and body butters.
			Unidentified aromatic hydrocarbon containing O and Cl circa C_7	8,400	Potential herbicide degradation products. The structrues are smaller and less complex than contaminants of concern and will therefore degrade more readily than the target contaminants and will be captured by the remediation process.
07.05.2010	24.05.2010	L9	Unidentified Aliphatic Hydrocarbon circa C_{30}	2,300	Potential herbicide degradation products. The structures are smaller and less complex than contaminants of concern and will therefore degrade more readily than the target contaminants and will be captured by the remediation process.
13.05.2010	24.05.2010	H8	No VOC/SVOC peaks detected		
13.05.2010	24.05.2010 (09.06.2010)	H9	1,2-bis(2,4,6-trichlorophenoxy)ethane	6,900	Potential Prochloraz degradation product
			Prochloraz	9,100	Fungicide
			Unidentified aromatic hydrocarbon containing Cl circa C_8	9,400	Potential herbicide degradation products. The structures are smaller and less complex than contaminants of concern and will therefore degrade more readily than the target contaminants and will be captured by the remediation process.
			Unidentified aromatic amine containing Cl circa C_{11}	2,100	
13.05.2010	24.05.2010	I7	No SVOC peaks detected		
			2,4-Dichloro-o-cresol	29,000	

13.05.2010	24.05.2010 (09.06.2010)	I9	2,3,6-Trichlorotoluene	47,000	Potential herbicide degradation product
			1-(2-Chloroethoxy)-2-(o-Tolyloxy) ethane	20,000	
			Unidentified aromatic alcohol containing Cl circa C_7	25,000	Potential herbicide degradation products. The structures are smaller and less complex than contaminants of concern and will therefore degrade more readily than the target contaminants and will be captured by the remediation process.
			Unidentified aromatic hydrocarbon containing O circa C_{16-18}	12,000	
13.05.2010	24.05.2010	J7	No VOC/SVOC peaks detected		
20.05.2010	24.05.2010	J8	No VOC/SVOC peaks detected		
26.05.2010		J9	No VOC/SVOC peaks detected		
04.06.2010	16.06.2010 (09.06.2010)	H7	Dichloromethyl phenol	2,100	Same as 2,4-Dichloro-o-cresol (I9)
05.05.2010	16.06.2010 (09.06.2010)	K7	1,2-bis(2,4,6-trichlorophenoxy)ethane	2400.0	As for H9
05.05.2010	16.06.2010	K8	No VOC/SVOC peaks detected		
18.06.2010	29.06.2010	I8	2-methyl phenol	5,500	Encountered and assessed during site investigation, not a priority contaminant
			1,2-dichlorobenzene	3,600	Contaminant of concern, already included in the standard validation suite
17.06.2010	29.06.2010 (09.06.2010)	K10	2,4-Dichloro-o-cresol	550,000	As for I9 and H7
22.06.2010		L10	Cyclo octaatomic sulphur	16,000	As for L8 - Sulphur
20.07.2010	21.07.2010	K10 NAPL	Dichloromethyl phenol	1,800,000	As for 2,4-Dichloro-o-cresol (I9, H7, K10)
			Naphthalene	4,600,000	Encountered and assessed during site investigation, not a priority contaminant
			2-methylnaphthalene	3,900,000	
			1-methylnaphthalene *CAS 90-12-0*	2,400,000	More toxic than 2-methylnaphthalene, must be assessed separately
			Dinoseb *CAS 88-85-7*	68,000,000	2-(1-methylpropyl)-4,6-dinitro- phenol - herbicide and insecticide. Yellow crystalline solid.
			Dichloromethyl phenol	24,000	As for 2,4-Dichloro-o-cresol (I9, H7, K10)
			1-(2-Chloroethoxy)-2-(o-Tolyloxy) ethane *CAS 21120-80-9*	13,000	Same as I9

21.07.2010	22.07.2010	J10	1,2,4-Trichlorobenzene	28,000	Encountered and assessed during site investigation, not a priority contaminant
			Trichlorobenzene	32,000	
			2-Chlorotoluene	60,000	
			Trichloro toluene isomer	48,000	Same as I9
			Trichloro benzenamine isomer	11,000	Potential herbicide degradation product
			2,3-Dichlorotoluene *CAS 32768-54-0*	290,000	
21.07.2010	22.07.2010	L11	Dichloromethyl phenol	5,000	As for 2,4-Dichloro-o-cresol (I9, H7, K10, J10)
28.07.2010	02.08.2010	H10	2,4-Dichloro-o-cresol *CAS 1570-65-6*	10,000	As for I9, H7, K10, J10, L11
			Trichloro toluene isomers	58,000	Same as I9, J10
			Dichlorotoluene isomer	52,000	6 possible isomers, but very little data, using surrogate.
			2-Chlorotoluene	39,000	Encountered and assessed during site investigation, not a priority contaminant
			Trichlorobenzene	350,000	
28.07.2010	02.08.2010	I10	2,4-Dichloro-o-cresol *CAS 1570-65-6*	5,000	As for I9, H7, K10, J10, L11, H10
			Trichloro toluene isomers	24,000	Same as I9, J10, H10